

# SAFETY DATA SHEET

Revision Date 29-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** BioGuard Pool Complete

### Other means of identification

**Product Code** 4820

**UN/ID no.** UN1760

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming Pool Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### **Initial Supplier Identifier**

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Corrosive to metals	Category 1

### Label elements

#### **Warning**

#### **Hazard statements**

Causes skin irritation  
Causes serious eye irritation  
May be corrosive to metals

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Keep only in original packaging

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

**Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention

**Spill**

Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store in original plastic container.  
Corrosive to aluminum.

**Other Information**

**Unknown acute toxicity** 11.05 % of the mixture consists of ingredient(s) of unknown toxicity  
2.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
11.05 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
11.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
11.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
11.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Not applicable.

**Mixture**

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
aluminium sulfate	10043-01-3	5 - 10	-	-

**4. FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician.
<b>Skin contact</b>	Flush skin with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	No information available.
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**Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

<b>Unsuitable extinguishing media</b>	None known.
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**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.
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**Environmental precautions**

<b>Environmental precautions</b>	Avoid release to the environment. See Section 12 for additional ecological information.
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**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

**Packaging materials** Keep only in original container. Do not store in aluminum containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
aluminium sulfate 10043-01-3	TWA: 2 mg/m <sup>3</sup>			TWA: 2 mg/m <sup>3</sup>

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Rubber gloves.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** liquid  
**Appearance** Milky  
**Color** colorless to light amber  
**Odor** Faintly acidic  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	1.5 - 2.6	undiluted
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	Miscible in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available.	
Oxidizing properties	No information available.	
<u>Other Information</u>		
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Density	8.7 - 9.1 lb/gal	
Bulk density	No information available	

## 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Do not mix with other swimming pool/spa chemicals in their concentrated forms. Bases.
Hazardous Decomposition Products	Oxides of aluminum. Sulphur oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

Inhalation	Not an expected route of exposure.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	May be harmful if swallowed.

### Information on toxicological effects

Symptoms	No information available.
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**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 5,848.00 mg/kg  
**ATEmix (inhalation-dust/mist)** 139.26 mg/l

**Unknown acute toxicity**

11.05 % of the mixture consists of ingredient(s) of unknown toxicity  
 2.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 11.05 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 11.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 11.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 11.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
aluminium sulfate 10043-01-3	= 1930 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Irritating to skin.  
**Serious eye damage/eye irritation** Irritating to eyes.  
**Respiratory or skin sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.  
**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organ Effects** Eyes, Skin.  
**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
aluminium sulfate 10043-01-3	-	100: 96 h Carassius auratus mg/L LC50 37: 96 h Gambusia affinis mg/L LC50 static	-	136: 15 min Daphnia magna mg/L EC50

**Persistence and degradability** No information available.  
**Bioaccumulation** No information available.

Other adverse effects No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Limited quantity (LQ) exception is possible

#### TDG

**UN/ID no.** UN1760  
**Proper shipping name** Corrosive liquid, n.o.s. (contains aluminum sulfate)  
**Hazard Class** 8  
**Packing Group** III

#### DOT

**UN/ID no.** UN1760  
**Proper shipping name** Corrosive liquids, n.o.s. (contains aluminum sulfate)  
**Hazard Class** 8  
**Packing Group** III

#### IATA

**UN/ID no.** UN1760  
**Proper shipping name** Corrosive liquid, n.o.s. (contains aluminum sulfate)  
**Hazard Class** 8  
**Packing Group** III

#### IMDG

**UN/ID no.** UN1760  
**Proper shipping name** Corrosive liquid, n.o.s. (contains aluminum sulfate)  
**Hazard Class** 8  
**Packing Group** III

### 15. REGULATORY INFORMATION

#### Regulatory information

##### Canadian Federal Regulations

**Consumer Chemicals and Containers Regulations, 2001** This product complies with Consumer Chemicals and Containers Regulations, 2001  
**PCP Registration Number** This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

##### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

##### International Inventories

TSCA Complies  
DSL/NDSL Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 1	Flammability 0	Instability 0	Physical and chemical properties -
<b>HMIS</b>	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision Date 29-May-2018

Revision Note No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



<b>Product Code</b>	<b>H1016</b>
<b>Product Name</b>	<b>Synergy System Half Kit</b>

# SAFETY DATA SHEET

Revision Date 09-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** SYNERGY TABS

### Other means of identification

**Product Code** H1024

**UN/ID no.** UN2468

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming pool sanitizer

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Poison Control Center (Medical) : (877) 800-5553  
Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Fatal if inhaled \*\*  
Causes severe skin burns and eye damage  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation  
May intensify fire; oxidizer



**\*\* Product as sold is not expected to produce respiratory effects. See Section 11 (Toxicological Information) for additional details on inhalation.**

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
In case of inadequate ventilation wear respiratory protection  
Keep away from clothing and other combustible materials  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

#### **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor

#### **Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
Wash contaminated clothing before reuse  
If skin irritation occurs: Get medical advice/attention

#### **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor

#### **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
Immediately call a POISON CENTER or doctor

#### **Fire**

In case of fire: Water only; no dry chemical, CO<sub>2</sub> or Halon

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Information**

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

**Unknown acute toxicity** 99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Trichloro-s-triazinetriene	87-90-1	91.5	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	3 - 7	-	-

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Have person sip a glass of water if able to swallow. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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#### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

<b>Hazardous combustion products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.
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**Explosion data****Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Other Information**

Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions****Environmental precautions**

This material is toxic to aquatic life. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up**

Use personal protective equipment as required. Avoid generation of dust. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Do not use floor sweeping compounds to clean up spills. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Do not mix with other chemicals. Keep away from contact with clothing and other combustible materials to avoid fire. Remove contaminated clothing and shoes. Wash thoroughly after handling. Use only in well-ventilated areas.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store locked up.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

**Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

**Other Information**

Chlorine and chlorine compounds may be found in slight amounts in the head space of containers of this product.

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand protection**

Rubber gloves.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Solid
Appearance	tablet
Color	white
Odor	Chlorine
Odor threshold	No information available

**Property****Values****Remarks • Method**

pH	2.9	in 1% Solution
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	

<b>Explosive properties</b>	No information available.
<b>Oxidizing properties</b>	No information available.

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	0.85 g/cm <sup>3</sup>
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
<b>Incompatible materials</b>	Incompatible with strong acids and bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Combustible material. Reducing agent.
<b>Hazardous Decomposition Products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.
<b>Eye contact</b>	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
<b>Skin contact</b>	Irritating to skin. Contact with moist skin may cause skin burns.
<b>Ingestion</b>	Harmful if swallowed.

**Information on toxicological effects**

<b>Symptoms</b>	May cause redness and tearing of the eyes.
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**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	546.00 mg/kg
<b>ATEmix (dermal)</b>	2,186.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	0.22 mg/l

**Unknown acute toxicity**

99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50** 651 mg/kg (rat)  
**Dermal LD50** > 2,000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloro-s-triazinetrione 87-90-1	= 406 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	>50 mg/L ( Rat ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trichloro-s-triazinetrione 87-90-1	-	0.13 - 0.5: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.06 - 0.11: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	-	0.16 - 0.18: 48 h <i>Daphnia magna</i> mg/L EC50 Static 0.21: 48 h <i>Daphnia magna</i> mg/L EC50

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.



### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products**  
**Contaminated packaging**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
 Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Limited quantity (LQ) exception is possible

#### TDG

UN/ID no.	UN2468
Proper shipping name	Trichloroisocyanuric acid, dry, mixture
Hazard Class	5.1
Packing Group	II
Description	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### DOT

UN/ID no.	UN2468
Proper shipping name	Trichloroisocyanuric acid, dry, mixture
Hazard Class	5.1
Packing Group	II
Description	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II
Emergency Response Guide Number	140

#### IATA

UN/ID no.	UN2468
Proper shipping name	Trichloroisocyanuric acid, dry, mixture
Hazard Class	5.1
Packing Group	II
Description	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### IMDG

UN/ID no.	UN2468
Proper shipping name	Trichloroisocyanuric acid, dry, mixture
Hazard Class	5.1
Packing Group	II
EmS-No.	F-A, S-Q
Marine pollutant	This material meets the definition of a marine pollutant
Description	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

### 15. REGULATORY INFORMATION

#### Regulatory information

##### Canadian Federal Regulations

**PCP Registration Number** 23633

##### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

##### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 3	Flammability 0	Instability 1	Physical and chemical properties -
<b>HMIS</b>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 09-May-2018**Revision Note** No information available.**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 10-Sep-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Synergy Clear

### Other means of identification

**Product Code** H1032

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming Pool Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation



This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor

**Skin**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell

**Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects

**Unknown acute toxicity** 98.2 % of the mixture consists of ingredient(s) of unknown toxicity

30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sodium Dichloro-S-Triazinetrione	2893-78-9	58.2	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	7 - 13	-	-
aluminium sulfate	10043-01-3	3 - 7	-	-

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician if irritation persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

##### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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##### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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##### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

<b>Hazardous combustion products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.
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##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** This material is toxic to aquatic life. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up** Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Avoid generation of dust. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not use floor sweeping compounds to clean up spills. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash contaminated clothing before reuse. Do not mix with other chemicals. Wash thoroughly after handling. Use only in well-ventilated areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
aluminium sulfate	TWA: 2 mg/m <sup>3</sup>			TWA: 2 mg/m <sup>3</sup>

10043-01-3				
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**Appropriate engineering controls**

Engineering controls                      Showers  
    Eyewash stations  
    Ventilation systems.

**Individual protection measures, such as personal protective equipment**

Eye/face protection                      Wear safety glasses with side shields (or goggles).

Hand protection                            Wear suitable gloves. Rubber gloves.

Skin and body protection                Wear suitable protective clothing.

Respiratory protection                  No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations        Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state                              Solid  
 Appearance                                granules  
 Color                                        blue  
 Odor                                         Chlorine  
 Odor threshold                            No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
pH	5-5.5	in 1% Solution
Melting point / freezing point	272 °C / 522 °F	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available.	
Oxidizing properties	No information available.	

**Other Information**

Softening point                            No information available  
 Molecular weight                        No information available  
 VOC Content (%)                        No information available  
 Density                                    1.0 g/cm3  
 Bulk density                              No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agents.
<b>Hazardous Decomposition Products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	May cause irritation. May be harmful by inhalation.
<b>Eye contact</b>	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
<b>Skin contact</b>	Irritating to skin. Contact with moist skin may cause skin burns.
<b>Ingestion</b>	Harmful if swallowed.

### Information on toxicological effects

<b>Symptoms</b>	May cause redness and tearing of the eyes.
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### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	513.00 mg/kg
<b>ATEmix (dermal)</b>	2,064.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	12.90 mg/l

#### Unknown acute toxicity

98.2 % of the mixture consists of ingredient(s) of unknown toxicity  
 30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

<b>Oral LD50</b>	599 mg/kg (rat)
<b>Dermal LD50</b>	> 5000 mg/kg (rat)

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dichloro-S-Triazinetrione 2893-78-9	= 1823 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	0.27 - 1.17 mg/L ( Rat, dust ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-
aluminium sulfate	= 1930 mg/kg ( Rat )	-	-



10043-01-3

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity** . Toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Dichloro-S-Triazinetrione 2893-78-9	-	0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static 0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static	-	0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
aluminium sulfate 10043-01-3	-	100: 96 h Carassius auratus mg/L LC50 37: 96 h Gambusia affinis mg/L LC50 static	-	136: 15 min Daphnia magna mg/L EC50

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Other adverse effects</b>	No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste from residues/unused products**  
**Contaminated packaging**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
 Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**Note:** Product classified as UN 3077 or UN 3082 that are shipped in containers not exceeding 5 kg or 5 L may ship as Not Subject to the provisions of the IMDG Code and Not Restricted under IATA. Refer to IMDG Ch 2.10 and IATA SP-197.

**TDG** Not regulated

**DOT** Not regulated

**IATA**

<b>UN/ID no.</b>	UN3077
<b>Proper shipping name</b>	Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetriene)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetriene), 9, III

**IMDG**

<b>UN/ID no.</b>	UN3077
<b>Proper shipping name</b>	Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetriene)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Marine pollutant</b>	This material meets the definition of a marine pollutant
<b>Description</b>	UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetriene), 9, III

## 15. REGULATORY INFORMATION

**Regulatory information****Canadian Federal Regulations**

**Consumer Chemicals and Containers Regulations, 2001**  
**PCP Registration Number**

This product complies with Consumer Chemicals and Containers Regulations, 2001

This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

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<b><u>NFPA</u></b>	Health hazards 3	Flammability 0	Instability 1	Physical and chemical properties -
<b><u>HMIS</u></b>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 10-Sep-2018

**Revision Note** No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

<b>Product Code</b>	<b>H1018</b>
<b>Product Name</b>	<b>Synergy System Full Kit</b>

# SAFETY DATA SHEET

Revision Date 09-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** SYNERGY TABS

### Other means of identification

**Product Code** H1024

**UN/ID no.** UN2468

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming pool sanitizer

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Poison Control Center (Medical) : (877) 800-5553  
Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Fatal if inhaled \*\*  
Causes severe skin burns and eye damage  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation  
May intensify fire; oxidizer



**\*\* Product as sold is not expected to produce respiratory effects. See Section 11 (Toxicological Information) for additional details on inhalation.**

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
In case of inadequate ventilation wear respiratory protection  
Keep away from clothing and other combustible materials  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

#### **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor

#### **Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
Wash contaminated clothing before reuse  
If skin irritation occurs: Get medical advice/attention

#### **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor

#### **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
Immediately call a POISON CENTER or doctor

#### **Fire**

In case of fire: Water only; no dry chemical, CO<sub>2</sub> or Halon

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Information**

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

**Unknown acute toxicity** 99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Trichloro-s-triazinetriene	87-90-1	91.5	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	3 - 7	-	-

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Have person sip a glass of water if able to swallow. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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#### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

<b>Hazardous combustion products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.
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**Explosion data****Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Other Information**

Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions****Environmental precautions**

This material is toxic to aquatic life. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up**

Use personal protective equipment as required. Avoid generation of dust. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Do not use floor sweeping compounds to clean up spills. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Do not mix with other chemicals. Keep away from contact with clothing and other combustible materials to avoid fire. Remove contaminated clothing and shoes. Wash thoroughly after handling. Use only in well-ventilated areas.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store locked up.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**



**Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

**Other Information**

Chlorine and chlorine compounds may be found in slight amounts in the head space of containers of this product.

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand protection**

Rubber gloves.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Solid
Appearance	tablet
Color	white
Odor	Chlorine
Odor threshold	No information available

**Property****Values****Remarks • Method**

pH	2.9	in 1% Solution
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	

<b>Explosive properties</b>	No information available.
<b>Oxidizing properties</b>	No information available.

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	0.85 g/cm <sup>3</sup>
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
<b>Incompatible materials</b>	Incompatible with strong acids and bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Combustible material. Reducing agent.
<b>Hazardous Decomposition Products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.
<b>Eye contact</b>	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
<b>Skin contact</b>	Irritating to skin. Contact with moist skin may cause skin burns.
<b>Ingestion</b>	Harmful if swallowed.

**Information on toxicological effects**

<b>Symptoms</b>	May cause redness and tearing of the eyes.
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**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	546.00 mg/kg
<b>ATEmix (dermal)</b>	2,186.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	0.22 mg/l

**Unknown acute toxicity**

99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50** 651 mg/kg (rat)  
**Dermal LD50** > 2,000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloro-s-triazinetrione 87-90-1	= 406 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	>50 mg/L ( Rat ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trichloro-s-triazinetrione 87-90-1	-	0.13 - 0.5: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.06 - 0.11: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	-	0.16 - 0.18: 48 h <i>Daphnia magna</i> mg/L EC50 Static 0.21: 48 h <i>Daphnia magna</i> mg/L EC50

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products**  
**Contaminated packaging**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
 Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Limited quantity (LQ) exception is possible

#### TDG

UN/ID no.	UN2468
Proper shipping name	Trichloroisocyanuric acid, dry, mixture
Hazard Class	5.1
Packing Group	II
Description	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### DOT

UN/ID no.	UN2468
Proper shipping name	Trichloroisocyanuric acid, dry, mixture
Hazard Class	5.1
Packing Group	II
Description	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II
Emergency Response Guide Number	140

#### IATA

UN/ID no.	UN2468
Proper shipping name	Trichloroisocyanuric acid, dry, mixture
Hazard Class	5.1
Packing Group	II
Description	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### IMDG

UN/ID no.	UN2468
Proper shipping name	Trichloroisocyanuric acid, dry, mixture
Hazard Class	5.1
Packing Group	II
EmS-No.	F-A, S-Q
Marine pollutant	This material meets the definition of a marine pollutant
Description	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

### 15. REGULATORY INFORMATION

#### Regulatory information

##### Canadian Federal Regulations

**PCP Registration Number** 23633

##### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

##### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Instability</b> 1	<b>Physical and chemical properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Physical hazards</b> 1	<b>Personal protection</b> X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 09-May-2018**Revision Note** No information available.**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 10-Sep-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Synergy Clear

### Other means of identification

**Product Code** H1032

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming Pool Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation



This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor

**Skin**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell

**Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects

**Unknown acute toxicity** 98.2 % of the mixture consists of ingredient(s) of unknown toxicity

30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sodium Dichloro-S-Triazinetrione	2893-78-9	58.2	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	7 - 13	-	-
aluminium sulfate	10043-01-3	3 - 7	-	-

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician if irritation persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

##### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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##### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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##### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

<b>Hazardous combustion products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.
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##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** This material is toxic to aquatic life. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up** Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Avoid generation of dust. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not use floor sweeping compounds to clean up spills. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash contaminated clothing before reuse. Do not mix with other chemicals. Wash thoroughly after handling. Use only in well-ventilated areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
aluminium sulfate	TWA: 2 mg/m <sup>3</sup>			TWA: 2 mg/m <sup>3</sup>

10043-01-3				
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**Appropriate engineering controls**

Engineering controls                      Showers  
    Eyewash stations  
    Ventilation systems.

**Individual protection measures, such as personal protective equipment**

Eye/face protection                      Wear safety glasses with side shields (or goggles).

Hand protection                            Wear suitable gloves. Rubber gloves.

Skin and body protection                Wear suitable protective clothing.

Respiratory protection                  No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations        Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state                              Solid  
 Appearance                                granules  
 Color                                        blue  
 Odor                                         Chlorine  
 Odor threshold                            No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
pH	5-5.5	in 1% Solution
Melting point / freezing point	272 °C / 522 °F	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available.	
Oxidizing properties	No information available.	

**Other Information**

Softening point                            No information available  
 Molecular weight                        No information available  
 VOC Content (%)                        No information available  
 Density                                    1.0 g/cm3  
 Bulk density                              No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agents.
<b>Hazardous Decomposition Products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	May cause irritation. May be harmful by inhalation.
<b>Eye contact</b>	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
<b>Skin contact</b>	Irritating to skin. Contact with moist skin may cause skin burns.
<b>Ingestion</b>	Harmful if swallowed.

### Information on toxicological effects

<b>Symptoms</b>	May cause redness and tearing of the eyes.
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### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	513.00 mg/kg
<b>ATEmix (dermal)</b>	2,064.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	12.90 mg/l

#### Unknown acute toxicity

98.2 % of the mixture consists of ingredient(s) of unknown toxicity  
 30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

<b>Oral LD50</b>	599 mg/kg (rat)
<b>Dermal LD50</b>	> 5000 mg/kg (rat)

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dichloro-S-Triazinetrione 2893-78-9	= 1823 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	0.27 - 1.17 mg/L ( Rat, dust ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-
aluminium sulfate	= 1930 mg/kg ( Rat )	-	-

10043-01-3

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity** . Toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Dichloro-S-Triazinetrione 2893-78-9	-	0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static 0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static	-	0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
aluminium sulfate 10043-01-3	-	100: 96 h Carassius auratus mg/L LC50 37: 96 h Gambusia affinis mg/L LC50 static	-	136: 15 min Daphnia magna mg/L EC50

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Other adverse effects</b>	No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste from residues/unused products**  
**Contaminated packaging**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
 Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**Note:** Product classified as UN 3077 or UN 3082 that are shipped in containers not exceeding 5 kg or 5 L may ship as Not Subject to the provisions of the IMDG Code and Not Restricted under IATA. Refer to IMDG Ch 2.10 and IATA SP-197.

**TDG** Not regulated

**DOT** Not regulated

**IATA**

<b>UN/ID no.</b>	UN3077
<b>Proper shipping name</b>	Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetriene)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetriene), 9, III

**IMDG**

<b>UN/ID no.</b>	UN3077
<b>Proper shipping name</b>	Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetriene)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Marine pollutant</b>	This material meets the definition of a marine pollutant
<b>Description</b>	UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetriene), 9, III

## 15. REGULATORY INFORMATION

**Regulatory information****Canadian Federal Regulations**

**Consumer Chemicals and Containers Regulations, 2001**  
**PCP Registration Number**

This product complies with Consumer Chemicals and Containers Regulations, 2001

This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

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<b><u>NFPA</u></b>	Health hazards 3	Flammability 0	Instability 1	Physical and chemical properties -
<b><u>HMIS</u></b>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 10-Sep-2018

**Revision Note** No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 09-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** SYNERGY TABS

### Other means of identification

**Product Code** H1021

**UN/ID no.** UN2468

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming pool sanitizer

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### **Initial Supplier Identifier**

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Poison Control Center (Medical) : (877) 800-5553  
Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Fatal if inhaled \*\*  
Causes severe skin burns and eye damage  
Suspected of damaging fertility or the unborn child

May cause respiratory irritation  
May intensify fire; oxidizer



**\*\* Product as sold is not expected to produce respiratory effects. See Section 11 (Toxicological Information) for additional details on inhalation.**

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
In case of inadequate ventilation wear respiratory protection  
Keep away from clothing and other combustible materials  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

#### **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor

#### **Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
Wash contaminated clothing before reuse  
If skin irritation occurs: Get medical advice/attention

#### **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor

#### **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
Immediately call a POISON CENTER or doctor

#### **Fire**

In case of fire: Water only; no dry chemical, CO<sub>2</sub> or Halon

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Information**

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

**Unknown acute toxicity** 99.95375 % of the mixture consists of ingredient(s) of unknown toxicity



8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Trichloro-s-triazinetrione	87-90-1	91.5	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	3 - 7	-	-

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Have person sip a glass of water if able to swallow. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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**Specific hazards arising from the chemical**

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

**Hazardous combustion products** Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions**

**Environmental precautions** This material is toxic to aquatic life. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up** Use personal protective equipment as required. Avoid generation of dust. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Do not use floor sweeping compounds to clean up spills. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Do not mix with other chemicals. Keep away from contact with clothing and other combustible materials to avoid fire. Remove contaminated clothing and shoes. Wash thoroughly after handling. Use only in well-ventilated areas.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

**Other Information**

Chlorine and chlorine compounds may be found in slight amounts in the head space of containers of this product.

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand protection**

Rubber gloves.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Solid
Appearance	tablet
Color	white
Odor	Chlorine
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	2.9	in 1% Solution
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	

Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available.
Oxidizing properties	No information available.

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	0.85 g/cm <sup>3</sup>
Bulk density	No information available

**10. STABILITY AND REACTIVITY**

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
Incompatible materials	Incompatible with strong acids and bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Combustible material. Reducing agent.
Hazardous Decomposition Products	Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Inhalation	This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.
Eye contact	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
Skin contact	Irritating to skin. Contact with moist skin may cause skin burns.
Ingestion	Harmful if swallowed.

**Information on toxicological effects**

Symptoms	May cause redness and tearing of the eyes.
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**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	546.00 mg/kg
<b>ATEmix (dermal)</b>	2,186.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	0.22 mg/l

**Unknown acute toxicity**

99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

<b>Oral LD50</b>	651 mg/kg (rat)
<b>Dermal LD50</b>	> 2,000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloro-s-triazinetrione 87-90-1	= 406 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	>50 mg/L ( Rat ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trichloro-s-triazinetrione	-	0.13 - 0.5: 96 h Lepomis	-	0.16 - 0.18: 48 h Daphnia

87-90-1		macrochirus mg/L LC50 static 0.06 - 0.11: 96 h Oncorhynchus mykiss mg/L LC50 static		magna mg/L EC50 Static 0.21: 48 h Daphnia magna mg/L EC50
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**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Limited quantity (LQ) exception is possible

#### TDG

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### DOT

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II  
**Emergency Response Guide Number** 140

#### IATA

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### IMDG

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**EmS-No.** F-A, S-Q  
**Marine pollutant** This material meets the definition of a marine pollutant  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

### 15. REGULATORY INFORMATION

**Regulatory information****Canadian Federal Regulations**

PCP Registration Number 23633

**International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

**International Inventories**

TSCA Complies

DSL/NDSL Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 3	Flammability 0	Instability 1	Physical and chemical properties -
<b>HMIS</b>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision Date 09-May-2018

Revision Note No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 25-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Spa Synergy Initiator

### Other means of identification

**Product Code** H1023

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spa Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Reproductive toxicity	Category 2

### Label elements

#### **Warning**

#### **Hazard statements**

Harmful if inhaled  
Suspected of damaging fertility or the unborn child





**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful if swallowed May be harmful in contact with skin

**Unknown acute toxicity** 100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
boric acid	10043-35-3	100	-	-

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air. Drink water and blow nose to remove dust. If symptoms persist, call a physician.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.

**Skin contact**

Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical**

Product is not flammable, combustible or explosive.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Avoid generation of dust. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas.

**Environmental precautions**

**Environmental precautions** Avoid release to the environment. Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.

**Methods for cleaning up** Avoid generation of dust. Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not breathe dust.

Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
boric acid 10043-35-3		TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	

#### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** None required for consumer use. Rubber gloves.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical state** Solid  
**Appearance** dry, free flowing granules  
**Color** white  
**Odor** Odorless  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5.1	in 1% Solution
Melting point / freezing point	171 °C	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	

Vapor density	No information available
Relative density	No information available
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available.
Oxidizing properties	No information available.

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

## 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Protect from moisture. Extremes of temperature and direct sunlight.
Incompatible materials	Strong reducing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms.
Hazardous Decomposition Products	None known.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause slight irritation. Dust contact with the eyes can lead to mechanical irritation.
Skin contact	Not expected to cause skin irritation under normal use conditions.
Ingestion	No adverse health effects anticipated from ingestion of incidental amounts of product.

**Information on toxicological effects**

Symptoms	No information available.
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**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (dermal)	2,002.00 mg/kg
ATEmix (inhalation-dust/mist)	2.12 mg/l

**Unknown acute toxicity**

100 % of the mixture consists of ingredient(s) of unknown toxicity  
 100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50** 3450 mg/kg (rat)

**Dermal LD50** > 2000 (rabbit)

**Inhalation LC50** > 2.12 mg/l (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
boric acid 10043-35-3	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 0.16 mg/L ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Not applicable.

**Serious eye damage/eye irritation** Mild eye irritant.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
boric acid 10043-35-3	-	1020: 72 h Carassius auratus mg/L LC50 flow-through	-	115 - 153: 48 h Daphnia magna mg/L EC50

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Component Information**

Chemical Name	Partition coefficient
boric acid 10043-35-3	-0.757

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products**  
**Contaminated packaging**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
 Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**TDG** Not regulated

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

### 15. REGULATORY INFORMATION

#### Regulatory information

##### Canadian Federal Regulations

**Consumer Chemicals and Containers Regulations, 2001**  
**PCP Registration Number**

This product complies with Consumer Chemicals and Containers Regulations, 2001

This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

##### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

##### International Inventories

**TSCA** Complies  
**DSL/NDSL** Complies

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<b>NFPA</b>	Health hazards 0	Flammability 0	Instability 0	<b>Physical and chemical properties -</b> <b>Personal protection X</b>
<b>HMIS</b>	Health hazards 1*	Flammability 0	Physical hazards 0	

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 25-May-2018

**Revision Note**

No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 09-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** SYNERGY TABS

### Other means of identification

**Product Code** H1024

**UN/ID no.** UN2468

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming pool sanitizer

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### **Initial Supplier Identifier**

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Poison Control Center (Medical) : (877) 800-5553  
Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Fatal if inhaled \*\*  
Causes severe skin burns and eye damage  
Suspected of damaging fertility or the unborn child



May cause respiratory irritation  
May intensify fire; oxidizer



**\*\* Product as sold is not expected to produce respiratory effects. See Section 11 (Toxicological Information) for additional details on inhalation.**

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
In case of inadequate ventilation wear respiratory protection  
Keep away from clothing and other combustible materials  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

#### **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor

#### **Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
Wash contaminated clothing before reuse  
If skin irritation occurs: Get medical advice/attention

#### **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor

#### **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
Immediately call a POISON CENTER or doctor

#### **Fire**

In case of fire: Water only; no dry chemical, CO<sub>2</sub> or Halon

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Information**

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

**Unknown acute toxicity** 99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Trichloro-s-triazinetrione	87-90-1	91.5	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	3 - 7	-	-

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Have person sip a glass of water if able to swallow. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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**Specific hazards arising from the chemical**

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

**Hazardous combustion products** Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions**

**Environmental precautions** This material is toxic to aquatic life. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up** Use personal protective equipment as required. Avoid generation of dust. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Do not use floor sweeping compounds to clean up spills. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Do not mix with other chemicals. Keep away from contact with clothing and other combustible materials to avoid fire. Remove contaminated clothing and shoes. Wash thoroughly after handling. Use only in well-ventilated areas.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

**Other Information**

Chlorine and chlorine compounds may be found in slight amounts in the head space of containers of this product.

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand protection**

Rubber gloves.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Solid
Appearance	tablet
Color	white
Odor	Chlorine
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	2.9	in 1% Solution
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	

Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available.
Oxidizing properties	No information available.

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	0.85 g/cm <sup>3</sup>
Bulk density	No information available

**10. STABILITY AND REACTIVITY**

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
Incompatible materials	Incompatible with strong acids and bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Combustible material. Reducing agent.
Hazardous Decomposition Products	Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Inhalation	This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.
Eye contact	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
Skin contact	Irritating to skin. Contact with moist skin may cause skin burns.
Ingestion	Harmful if swallowed.

**Information on toxicological effects**

Symptoms	May cause redness and tearing of the eyes.
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Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	546.00 mg/kg
<b>ATEmix (dermal)</b>	2,186.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	0.22 mg/l

**Unknown acute toxicity**

99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

<b>Oral LD50</b>	651 mg/kg (rat)
<b>Dermal LD50</b>	> 2,000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloro-s-triazinetrione 87-90-1	= 406 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	>50 mg/L ( Rat ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trichloro-s-triazinetrione	-	0.13 - 0.5: 96 h Lepomis	-	0.16 - 0.18: 48 h Daphnia

87-90-1		macrochirus mg/L LC50 static 0.06 - 0.11: 96 h Oncorhynchus mykiss mg/L LC50 static		magna mg/L EC50 Static 0.21: 48 h Daphnia magna mg/L EC50
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**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Limited quantity (LQ) exception is possible

#### TDG

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### DOT

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II  
**Emergency Response Guide Number** 140

#### IATA

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### IMDG

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**EmS-No.** F-A, S-Q  
**Marine pollutant** This material meets the definition of a marine pollutant  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

### 15. REGULATORY INFORMATION

**Regulatory information****Canadian Federal Regulations**

PCP Registration Number 23633

**International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

**International Inventories**

TSCA Complies

DSL/NDSL Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 3	Flammability 0	Instability 1	Physical and chemical properties -
<b>HMIS</b>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision Date 09-May-2018

Revision Note No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



# SAFETY DATA SHEET

Revision Date 25-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Synergy Initiator

### Other means of identification

**Product Code** H1025

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming Pool Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Reproductive toxicity	Category 2

### Label elements

#### **Warning**

#### **Hazard statements**

Harmful if inhaled  
Suspected of damaging fertility or the unborn child



\* Product as sold is not expected to produce fertility or reproductive effects. See Section 11 (Toxicological Information) for additional details on reproduction toxicity.

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful if swallowed May be harmful in contact with skin

**Unknown acute toxicity** 100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
boric acid	10043-35-3	100	-	-

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air. Drink water and blow nose to remove dust. If symptoms persist, call a physician.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.

**Skin contact**

Wash off immediately with plenty of water. Get medical attention if irritation develops and

persists.

**Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician.

**Most important symptoms and effects, both acute and delayed****Symptoms**

No information available.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

None known.

**Specific hazards arising from the chemical**

Product is not flammable, combustible or explosive.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid generation of dust. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas.

**Environmental precautions****Environmental precautions**

Avoid release to the environment. Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.

**Methods for cleaning up**

Avoid generation of dust. Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not breathe dust. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
boric acid 10043-35-3		TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** None required for consumer use. Rubber gloves.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Solid  
**Appearance** dry, free flowing granules  
**Color** white  
**Odor** Odorless  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	5.1	in 1% Solution
<b>Melting point / freezing point</b>	171 °C	
<b>Boiling point / boiling range</b>	No information available	
<b>Flash point</b>	No information available	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	

<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Relative density</b>	No information available
<b>Water solubility</b>	Soluble in water
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	No information available.
<b>Oxidizing properties</b>	No information available.

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Protect from moisture. Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Strong reducing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms.
<b>Hazardous Decomposition Products</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause slight irritation. Dust contact with the eyes can lead to mechanical irritation.
<b>Skin contact</b>	Not expected to cause skin irritation under normal use conditions.
<b>Ingestion</b>	No adverse health effects anticipated from ingestion of incidental amounts of product.

**Information on toxicological effects**

<b>Symptoms</b>	No information available.
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**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (dermal)</b>	2,002.00 mg/kg
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ATEmix (inhalation-dust/mist) 2.12 mg/l

**Unknown acute toxicity**

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50** 3450 mg/kg (rat)**Dermal LD50** > 2000 (rabbit)**Inhalation LC50** > 2.12 mg/l (rat)**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
boric acid 10043-35-3	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 0.16 mg/L ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation** Not applicable.**Serious eye damage/eye irritation** Mild eye irritant.**Respiratory or skin sensitization** No information available.**Germ cell mutagenicity** No information available.**Carcinogenicity** No information available.

**Reproductive toxicity** This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**STOT - single exposure** No information available.**STOT - repeated exposure** No information available.**Aspiration hazard** No information available.**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
boric acid 10043-35-3	-	1020: 72 h Carassius auratus mg/L LC50 flow-through	-	115 - 153: 48 h Daphnia magna mg/L EC50

**Persistence and degradability** No information available.**Bioaccumulation** No information available.**Component Information**

Chemical Name	Partition coefficient
boric acid 10043-35-3	-0.757

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products**  
**Contaminated packaging**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
 Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**TDG** Not regulated  
**DOT** Not regulated  
**IATA** Not regulated  
**IMDG** Not regulated

### 15. REGULATORY INFORMATION

#### Regulatory information

#### Canadian Federal Regulations

**Consumer Chemicals and Containers Regulations, 2001**  
**PCP Registration Number**

This product complies with Consumer Chemicals and Containers Regulations, 2001

This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable  
**Persistent Organic Pollutants** Not applicable  
**Export Notification requirements** Not applicable

#### International Inventories

**TSCA** Complies  
**DSL/NDSL** Complies

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<b><u>NFPA</u></b>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical properties -</b>
<b><u>HMIS</u></b>	<b>Health hazards</b> 1*	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 25-May-2018

**Revision Note** No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



# SAFETY DATA SHEET

Revision Date 10-Sep-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Spa Synergy Clear

### Other means of identification

**Product Code** H1028

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spa Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation



This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor

**Skin**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell

**Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects

**Unknown acute toxicity** 98.2 % of the mixture consists of ingredient(s) of unknown toxicity

30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sodium Dichloro-S-Triazinetrione	2893-78-9	58.2	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	7 - 13	-	-
aluminium sulfate	10043-01-3	3 - 7	-	-

## 4. FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician if irritation persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

<b>Hazardous combustion products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.
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### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other Information**

Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions**

This material is toxic to aquatic life. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment**

Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up**

Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Avoid generation of dust. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not use floor sweeping compounds to clean up spills. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash contaminated clothing before reuse. Do not mix with other chemicals. Wash thoroughly after handling. Use only in well-ventilated areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
aluminium sulfate 10043-01-3	TWA: 2 mg/m <sup>3</sup>			TWA: 2 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      Wear safety glasses with side shields (or goggles).

**Hand protection**                              Wear suitable gloves. Rubber gloves.

**Skin and body protection**                      Wear suitable protective clothing.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state**                                      Solid  
**Appearance**                                      granules  
**Color**    blue  
**Odor**    Chlorine  
**Odor threshold**                                      No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5-5.5	in 1% Solution
Melting point / freezing point	272 °C / 522 °F	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available.	

**Oxidizing properties** No information available.

**Other Information**

**Softening point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** No information available  
**Density** 1.0 g/cm<sup>3</sup>  
**Bulk density** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to avoid** Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.

**Incompatible materials** Acids. Bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agents.

**Hazardous Decomposition Products** Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Inhalation** May cause irritation. May be harmful by inhalation.  
**Eye contact** Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.  
**Skin contact** Irritating to skin. Contact with moist skin may cause skin burns.  
**Ingestion** Harmful if swallowed.

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes.

### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 513.00 mg/kg  
**ATEmix (dermal)** 2,064.00 mg/kg  
**ATEmix (inhalation-dust/mist)** 12.90 mg/l

#### Unknown acute toxicity

98.2 % of the mixture consists of ingredient(s) of unknown toxicity  
 30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50** 599 mg/kg (rat)  
**Dermal LD50** > 5000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dichloro-S-Triazinetrione 2893-78-9	= 1823 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	0.27 - 1.17 mg/L ( Rat, dust ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-
aluminium sulfate 10043-01-3	= 1930 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** . Toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Dichloro-S-Triazinetrione 2893-78-9	-	0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static 0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static	-	0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
aluminium sulfate 10043-01-3	-	100: 96 h Carassius auratus mg/L LC50 37:	-	136: 15 min Daphnia magna mg/L EC50

		96 h <i>Gambusia affinis</i> mg/L LC50 static		
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**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Product classified as UN 3077 or UN 3082 that are shipped in containers not exceeding 5 kg or 5 L may ship as Not Subject to the provisions of the IMDG Code and Not Restricted under IATA. Refer to IMDG Ch 2.10 and IATA SP-197.

**TDG** Not regulated

**DOT** Not regulated

#### IATA

**UN/ID no.** UN3077  
**Proper shipping name** Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetrione)  
**Hazard Class** 9  
**Packing Group** III  
**Description** UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetrione), 9, III

#### IMDG

**UN/ID no.** UN3077  
**Proper shipping name** Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetrione)  
**Hazard Class** 9  
**Packing Group** III  
**Marine pollutant** This material meets the definition of a marine pollutant  
**Description** UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetrione), 9, III

### 15. REGULATORY INFORMATION

#### Regulatory information

#### Canadian Federal Regulations

**Consumer Chemicals and Containers Regulations, 2001** This product complies with Consumer Chemicals and Containers Regulations, 2001

**PCP Registration Number** This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable



**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

**TSCA** Complies

**DSL/NDSL** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b><u>NFPA</u></b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Instability</b> 1	<b>Physical and chemical properties -</b>
<b><u>HMIS</u></b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Physical hazards</b> 1	<b>Personal protection</b> X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**TWA** TWA (time-weighted average)

**STEL**

STEL (Short Term Exposure Limit)

**Ceiling** Maximum limit value

\*

Skin designation

**Revision Date** 10-Sep-2018

**Revision Note** No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 10-Sep-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Synergy Clear

### Other means of identification

**Product Code** H1032

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming Pool Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation



This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor

**Skin**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell

**Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects

**Unknown acute toxicity** 98.2 % of the mixture consists of ingredient(s) of unknown toxicity

30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sodium Dichloro-S-Triazinetrione	2893-78-9	58.2	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	7 - 13	-	-
aluminium sulfate	10043-01-3	3 - 7	-	-

## 4. FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician if irritation persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

<b>Hazardous combustion products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.
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### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other Information**

Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions**

This material is toxic to aquatic life. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment**

Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up**

Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Avoid generation of dust. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not use floor sweeping compounds to clean up spills. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash contaminated clothing before reuse. Do not mix with other chemicals. Wash thoroughly after handling. Use only in well-ventilated areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
aluminium sulfate 10043-01-3	TWA: 2 mg/m <sup>3</sup>			TWA: 2 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      Wear safety glasses with side shields (or goggles).

**Hand protection**                              Wear suitable gloves. Rubber gloves.

**Skin and body protection**                      Wear suitable protective clothing.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state**                                      Solid  
**Appearance**                                      granules  
**Color**    blue  
**Odor**    Chlorine  
**Odor threshold**                                      No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5-5.5	in 1% Solution
Melting point / freezing point	272 °C / 522 °F	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available.	

**Oxidizing properties** No information available.

**Other Information**

**Softening point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** No information available  
**Density** 1.0 g/cm<sup>3</sup>  
**Bulk density** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to avoid** Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.

**Incompatible materials** Acids. Bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agents.

**Hazardous Decomposition Products** Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Inhalation** May cause irritation. May be harmful by inhalation.  
**Eye contact** Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.  
**Skin contact** Irritating to skin. Contact with moist skin may cause skin burns.  
**Ingestion** Harmful if swallowed.

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes.

### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 513.00 mg/kg  
**ATEmix (dermal)** 2,064.00 mg/kg  
**ATEmix (inhalation-dust/mist)** 12.90 mg/l

#### Unknown acute toxicity

98.2 % of the mixture consists of ingredient(s) of unknown toxicity  
 30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50** 599 mg/kg (rat)  
**Dermal LD50** > 5000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dichloro-S-Triazinetrione 2893-78-9	= 1823 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	0.27 - 1.17 mg/L ( Rat, dust ) 4 h
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-
aluminium sulfate 10043-01-3	= 1930 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** . Toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Dichloro-S-Triazinetrione 2893-78-9	-	0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static 0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static	-	0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
aluminium sulfate 10043-01-3	-	100: 96 h Carassius auratus mg/L LC50 37:	-	136: 15 min Daphnia magna mg/L EC50



		96 h <i>Gambusia affinis</i> mg/L LC50 static		
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**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Product classified as UN 3077 or UN 3082 that are shipped in containers not exceeding 5 kg or 5 L may ship as Not Subject to the provisions of the IMDG Code and Not Restricted under IATA. Refer to IMDG Ch 2.10 and IATA SP-197.

**TDG** Not regulated

**DOT** Not regulated

#### IATA

**UN/ID no.** UN3077  
**Proper shipping name** Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetrione)  
**Hazard Class** 9  
**Packing Group** III  
**Description** UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetrione), 9, III

#### IMDG

**UN/ID no.** UN3077  
**Proper shipping name** Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetrione)  
**Hazard Class** 9  
**Packing Group** III  
**Marine pollutant** This material meets the definition of a marine pollutant  
**Description** UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetrione), 9, III

### 15. REGULATORY INFORMATION

#### Regulatory information

#### Canadian Federal Regulations

**Consumer Chemicals and Containers Regulations, 2001** This product complies with Consumer Chemicals and Containers Regulations, 2001

**PCP Registration Number** This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

**TSCA** Complies

**DSL/NDSL** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b><u>NFPA</u></b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Instability</b> 1	<b>Physical and chemical properties -</b>
<b><u>HMIS</u></b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Physical hazards</b> 1	<b>Personal protection</b> X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**TWA** TWA (time-weighted average)

**STEL**

STEL (Short Term Exposure Limit)

**Ceiling** Maximum limit value

\*

Skin designation

**Revision Date** 10-Sep-2018

**Revision Note** No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 09-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** SPA SYNERGY TABS

### Other means of identification

**Product Code** H4987

**UN/ID no.** UN2468

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spa Sanitizer

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### **Initial Supplier Identifier**

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Poison Control Center (Medical) : (877) 800-5553  
Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Fatal if inhaled \*\*  
Causes severe skin burns and eye damage  
Suspected of damaging fertility or the unborn child

May cause respiratory irritation  
May intensify fire; oxidizer



**\*\* Product as sold is not expected to produce respiratory effects. See Section 11 (Toxicological Information) for additional details on inhalation.**

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
In case of inadequate ventilation wear respiratory protection  
Keep away from clothing and other combustible materials  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

#### **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor

#### **Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
Wash contaminated clothing before reuse  
If skin irritation occurs: Get medical advice/attention

#### **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor

#### **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
Immediately call a POISON CENTER or doctor

#### **Fire**

In case of fire: Water only; no dry chemical, CO<sub>2</sub> or Halon

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Information**

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

**Unknown acute toxicity** 99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Trichloro-s-triazinetrione	87-90-1	91.5	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	3 - 7	-	-

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Have person sip a glass of water if able to swallow. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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**Specific hazards arising from the chemical**

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

**Hazardous combustion products** Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions**

**Environmental precautions** This material is toxic to aquatic life. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up** Use personal protective equipment as required. Avoid generation of dust. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Do not use floor sweeping compounds to clean up spills. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Do not mix with other chemicals. Keep away from contact with clothing and other combustible materials to avoid fire. Remove contaminated clothing and shoes. Wash thoroughly after handling. Use only in well-ventilated areas.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

**Other Information**

Chlorine and chlorine compounds may be found in slight amounts in the head space of containers of this product.

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand protection**

Rubber gloves.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Solid
Appearance	tablet
Color	white
Odor	Chlorine
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	2.9	in 1% Solution
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	

Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available.
Oxidizing properties	No information available.

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	0.85 g/cm <sup>3</sup>
Bulk density	No information available

**10. STABILITY AND REACTIVITY**

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
Incompatible materials	Incompatible with strong acids and bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Combustible material. Reducing agent.
Hazardous Decomposition Products	Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Inhalation	This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.
Eye contact	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
Skin contact	Irritating to skin. Contact with moist skin may cause skin burns.
Ingestion	Harmful if swallowed.

**Information on toxicological effects**

Symptoms	May cause redness and tearing of the eyes.
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Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	546.00 mg/kg
<b>ATEmix (dermal)</b>	2,186.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	0.22 mg/l

**Unknown acute toxicity**

99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

<b>Oral LD50</b>	651 mg/kg (rat)
<b>Dermal LD50</b>	> 2,000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloro-s-triazinetrione 87-90-1	= 406 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	>50 mg/L ( Rat ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trichloro-s-triazinetrione	-	0.13 - 0.5: 96 h Lepomis	-	0.16 - 0.18: 48 h Daphnia

87-90-1		macrochirus mg/L LC50 static 0.06 - 0.11: 96 h Oncorhynchus mykiss mg/L LC50 static		magna mg/L EC50 Static 0.21: 48 h Daphnia magna mg/L EC50
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**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Limited quantity (LQ) exception is possible

#### TDG

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### DOT

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II  
**Emergency Response Guide Number** 140

#### IATA

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

#### IMDG

**UN/ID no.** UN2468  
**Proper shipping name** Trichloroisocyanuric acid, dry, mixture  
**Hazard Class** 5.1  
**Packing Group** II  
**EmS-No.** F-A, S-Q  
**Marine pollutant** This material meets the definition of a marine pollutant  
**Description** UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

### 15. REGULATORY INFORMATION

**Regulatory information****Canadian Federal Regulations**

PCP Registration Number 26666

**International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

**International Inventories**

TSCA Complies

DSL/NDSL Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 3	Flammability 0	Instability 1	Physical and chemical properties -
<b>HMIS</b>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision Date 09-May-2018

Revision Note No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 10-Sep-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Spa Synergy Clear

### Other means of identification

**Product Code** H4990

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spa Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation



This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor

**Skin**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell

**Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects

**Unknown acute toxicity** 98.2 % of the mixture consists of ingredient(s) of unknown toxicity

30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sodium Dichloro-S-Triazinetrione	2893-78-9	58.2	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	7 - 13	-	-
aluminium sulfate	10043-01-3	3 - 7	-	-

## 4. FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician if irritation persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

<b>Hazardous combustion products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.
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### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other Information**

Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions**

This material is toxic to aquatic life. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment**

Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up**

Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Avoid generation of dust. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not use floor sweeping compounds to clean up spills. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash contaminated clothing before reuse. Do not mix with other chemicals. Wash thoroughly after handling. Use only in well-ventilated areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
aluminium sulfate 10043-01-3	TWA: 2 mg/m <sup>3</sup>			TWA: 2 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      Wear safety glasses with side shields (or goggles).

**Hand protection**                              Wear suitable gloves. Rubber gloves.

**Skin and body protection**                      Wear suitable protective clothing.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state**                                      Solid  
**Appearance**                                      granules  
**Color**    blue  
**Odor**    Chlorine  
**Odor threshold**                                      No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5-5.5	in 1% Solution
Melting point / freezing point	272 °C / 522 °F	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available.	



**Oxidizing properties** No information available.

**Other Information**

**Softening point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** No information available  
**Density** 1.0 g/cm<sup>3</sup>  
**Bulk density** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to avoid** Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.

**Incompatible materials** Acids. Bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agents.

**Hazardous Decomposition Products** Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Inhalation** May cause irritation. May be harmful by inhalation.  
**Eye contact** Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.  
**Skin contact** Irritating to skin. Contact with moist skin may cause skin burns.  
**Ingestion** Harmful if swallowed.

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes.

### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 513.00 mg/kg  
**ATEmix (dermal)** 2,064.00 mg/kg  
**ATEmix (inhalation-dust/mist)** 12.90 mg/l

#### Unknown acute toxicity

98.2 % of the mixture consists of ingredient(s) of unknown toxicity  
 30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50** 599 mg/kg (rat)  
**Dermal LD50** > 5000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dichloro-S-Triazinetrione 2893-78-9	= 1823 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	0.27 - 1.17 mg/L ( Rat, dust ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-
aluminium sulfate 10043-01-3	= 1930 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** . Toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Dichloro-S-Triazinetrione 2893-78-9	-	0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static 0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static	-	0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
aluminium sulfate 10043-01-3	-	100: 96 h Carassius auratus mg/L LC50 37:	-	136: 15 min Daphnia magna mg/L EC50

		96 h <i>Gambusia affinis</i> mg/L LC50 static		
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**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**Note:** Product classified as UN 3077 or UN 3082 that are shipped in containers not exceeding 5 kg or 5 L may ship as Not Subject to the provisions of the IMDG Code and Not Restricted under IATA. Refer to IMDG Ch 2.10 and IATA SP-197.

**TDG** Not regulated

**DOT** Not regulated

#### IATA

**UN/ID no.** UN3077  
**Proper shipping name** Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetriene)  
**Hazard Class** 9  
**Packing Group** III  
**Description** UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetriene), 9, III

#### IMDG

**UN/ID no.** UN3077  
**Proper shipping name** Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetriene)  
**Hazard Class** 9  
**Packing Group** III  
**Marine pollutant** This material meets the definition of a marine pollutant  
**Description** UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetriene), 9, III

### 15. REGULATORY INFORMATION

#### Regulatory information

#### Canadian Federal Regulations

**Consumer Chemicals and Containers Regulations, 2001** This product complies with Consumer Chemicals and Containers Regulations, 2001

**PCP Registration Number** This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

**International Inventories**

TSCA Complies

DSL/NDSL Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 3	Flammability 0	Instability 1	Physical and chemical properties -
<b>HMIS</b>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

\*

Skin designation

Revision Date 10-Sep-2018

Revision Note No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

<b>Product Code</b>	<b>H4999</b>
<b>Product Name</b>	<b>Spa Synergy Kit</b>

# SAFETY DATA SHEET

Revision Date 25-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Spa Synergy Initiator

### Other means of identification

**Product Code** H1023

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spa Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Reproductive toxicity	Category 2

### Label elements

#### **Warning**

#### **Hazard statements**

Harmful if inhaled  
Suspected of damaging fertility or the unborn child



**\* Product as sold is not expected to produce fertility or reproductive effects. See Section 11 (Toxicological Information) for additional details on reproduction toxicity.**

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful if swallowed May be harmful in contact with skin

**Unknown acute toxicity** 100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
boric acid	10043-35-3	100	-	-

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air. Drink water and blow nose to remove dust. If symptoms persist, call a physician.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.

**Skin contact**

Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical**

Product is not flammable, combustible or explosive.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Avoid generation of dust. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas.

**Environmental precautions**

**Environmental precautions** Avoid release to the environment. Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.

**Methods for cleaning up** Avoid generation of dust. Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not breathe dust. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**



**Storage Conditions**

Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Limits**

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
boric acid 10043-35-3		TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand protection**

None required for consumer use. Rubber gloves.

**Skin and body protection**

No special protective equipment required.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Solid
Appearance	dry, free flowing granules
Color	white
Odor	Odorless
Odor threshold	No information available

**Property****Values****Remarks • Method**

pH	5.1	in 1% Solution
Melting point / freezing point	171 °C	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	

Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available.
Oxidizing properties	No information available.

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

## 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Protect from moisture. Extremes of temperature and direct sunlight.
Incompatible materials	Strong reducing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms.
Hazardous Decomposition Products	None known.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause slight irritation. Dust contact with the eyes can lead to mechanical irritation.
Skin contact	Not expected to cause skin irritation under normal use conditions.
Ingestion	No adverse health effects anticipated from ingestion of incidental amounts of product.

**Information on toxicological effects**

Symptoms	No information available.
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**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (dermal)	2,002.00 mg/kg
ATEmix (inhalation-dust/mist)	2.12 mg/l

**Unknown acute toxicity**

- 100 % of the mixture consists of ingredient(s) of unknown toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Oral LD50	3450 mg/kg (rat)
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Dermal LD50 > 2000 (rabbit)  
 Inhalation LC50 > 2.12 mg/l (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
boric acid 10043-35-3	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 0.16 mg/L ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Not applicable.
<b>Serious eye damage/eye irritation</b>	Mild eye irritant.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
boric acid 10043-35-3	-	1020: 72 h Carassius auratus mg/L LC50 flow-through	-	115 - 153: 48 h Daphnia magna mg/L EC50

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Component Information**

Chemical Name	Partition coefficient
boric acid 10043-35-3	-0.757

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

<u>TDG</u>	Not regulated
<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

## 15. REGULATORY INFORMATION

### Regulatory information

#### Canadian Federal Regulations

<b>Consumer Chemicals and Containers Regulations, 2001</b>	This product complies with Consumer Chemicals and Containers Regulations, 2001
<b>PCP Registration Number</b>	This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

#### International Regulations

<b>Ozone-depleting substances (ODS)</b>	Not applicable
<b>Persistent Organic Pollutants</b>	Not applicable
<b>Export Notification requirements</b>	Not applicable

#### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 0	Flammability 0	Instability 0	Physical and chemical properties -
<u>HMIS</u>	Health hazards 1*	Flammability 0	Physical hazards 0	Personal protection X

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 25-May-2018

**Revision Note** No information available.

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 10-Sep-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Spa Synergy Clear

### Other means of identification

**Product Code** H1028

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spa Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation



This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor

**Skin**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell

**Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects

**Unknown acute toxicity** 98.2 % of the mixture consists of ingredient(s) of unknown toxicity

30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sodium Dichloro-S-Triazinetrione	2893-78-9	58.2	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	7 - 13	-	-
aluminium sulfate	10043-01-3	3 - 7	-	-

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician if irritation persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. Rinse mouth. Have person sip a glass of water if able to swallow. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

##### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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##### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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##### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

<b>Hazardous combustion products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.
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##### Explosion data

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** This material is toxic to aquatic life. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up** Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Avoid generation of dust. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not use floor sweeping compounds to clean up spills. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash contaminated clothing before reuse. Do not mix with other chemicals. Wash thoroughly after handling. Use only in well-ventilated areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
aluminium sulfate	TWA: 2 mg/m <sup>3</sup>			TWA: 2 mg/m <sup>3</sup>



### Appropriate engineering controls

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	Wear suitable gloves. Rubber gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid
<b>Appearance</b>	granules
<b>Color</b>	blue
<b>Odor</b>	Chlorine
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5-5.5	in 1% Solution
Melting point / freezing point	272 °C / 522 °F	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available.	
Oxidizing properties	No information available.	
<u>Other Information</u>		
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Density	1.0 g/cm3	
Bulk density	No information available	

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agents.
<b>Hazardous Decomposition Products</b>	Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	May cause irritation. May be harmful by inhalation.
<b>Eye contact</b>	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
<b>Skin contact</b>	Irritating to skin. Contact with moist skin may cause skin burns.
<b>Ingestion</b>	Harmful if swallowed.

### Information on toxicological effects

<b>Symptoms</b>	May cause redness and tearing of the eyes.
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### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	513.00 mg/kg
<b>ATEmix (dermal)</b>	2,064.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	12.90 mg/l

#### Unknown acute toxicity

98.2 % of the mixture consists of ingredient(s) of unknown toxicity  
 30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

<b>Oral LD50</b>	599 mg/kg (rat)
<b>Dermal LD50</b>	> 5000 mg/kg (rat)

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dichloro-S-Triazinetrione 2893-78-9	= 1823 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	0.27 - 1.17 mg/L ( Rat, dust ) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-
aluminium sulfate	= 1930 mg/kg ( Rat )	-	-

10043-01-3

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. Risk of serious damage to eyes. May cause burns.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity** . Toxic to aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Dichloro-S-Triazinetrione 2893-78-9	-	0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static 0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static	-	0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
aluminium sulfate 10043-01-3	-	100: 96 h Carassius auratus mg/L LC50 37: 96 h Gambusia affinis mg/L LC50 static	-	136: 15 min Daphnia magna mg/L EC50

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Other adverse effects</b>	No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste from residues/unused products**  
**Contaminated packaging**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
 Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**Note:** Product classified as UN 3077 or UN 3082 that are shipped in containers not exceeding 5 kg or 5 L may ship as Not Subject to the provisions of the IMDG Code and Not Restricted under IATA. Refer to IMDG Ch 2.10 and IATA SP-197.

**TDG** Not regulated

**DOT** Not regulated

**IATA**

<b>UN/ID no.</b>	UN3077
<b>Proper shipping name</b>	Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetriene)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetriene), 9, III

**IMDG**

<b>UN/ID no.</b>	UN3077
<b>Proper shipping name</b>	Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetriene)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Marine pollutant</b>	This material meets the definition of a marine pollutant
<b>Description</b>	UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetriene), 9, III

## 15. REGULATORY INFORMATION

**Regulatory information****Canadian Federal Regulations**

<b>Consumer Chemicals and Containers Regulations, 2001</b>	This product complies with Consumer Chemicals and Containers Regulations, 2001
<b>PCP Registration Number</b>	This product does not contain any substances regulated as pesticides. / Ce produit ne contient aucune substance réglementée comme un pesticide.

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDL</b>	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

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<b><u>NFPA</u></b>	Health hazards 3	Flammability 0	Instability 1	Physical and chemical properties -
<b><u>HMIS</u></b>	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 10-Sep-2018

**Revision Note** No information available.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

Revision Date 19-Jun-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** SYNERGY SPA CLEAN

### Other means of identification

**Product Code** H4979

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spa Product

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Chemtrec (Transportation) 1-800-424-9300, 703-527-3887  
Poison Control Center (Medical) : (877) 800-5553

## 2. HAZARDS IDENTIFICATION

### Classification

Not classified

### Label elements

### **Hazard statements**

Not classified

### Other Information

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

The product contains no substances which at their given concentration, are considered to be hazardous to health

### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>General advice</b>	Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if symptoms occur.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical attention immediately if symptoms occur.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Yes.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation.

#### Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Appearance</b>	aqueous solution
<b>Color</b>	amber
<b>Odor</b>	mild
<b>Odor threshold</b>	No information available



<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	3.0 - 4.5	
Melting point / freezing point	No information available	
Boiling point / boiling range	100 °C / 212 °F	
Flash point	> 93 °C / 200 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available.	
Oxidizing properties	No information available.	
<u>Other Information</u>		
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Density	0.995 g/cm <sup>3</sup>	
Bulk density	No information available	

## 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Incompatible with oxidizing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms.
Hazardous Decomposition Products	Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

Inhalation	Not an expected route of exposure.
Eye contact	May cause irritation.
Skin contact	May cause irritation.
Ingestion	No adverse health effects anticipated from ingestion of incidental amounts of product. Ingestion may cause irritation to mucous membranes.

### Information on toxicological effects

**Symptoms** No information available.

**Numerical measures of toxicity**

**Acute toxicity**

**Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** .

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**TDG** Not regulated

DOT Not regulated

IATA Not regulated

IMDG Not regulated

## 15. REGULATORY INFORMATION

### Regulatory information

#### Canadian Federal Regulations

**Consumer Chemicals and Containers Regulations, 2001** This product complies with Consumer Chemicals and Containers Regulations, 2001

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

#### International Inventories

**TSCA** Complies

**DSL/NDSL** Complies

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u><b>NFPA</b></u>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical properties -</b>
<u><b>HMIS</b></u>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 19-Jun-2018

**Revision Note** No information available.

#### **Disclaimer**

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# SAFETY DATA SHEET

Revision Date 09-May-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** SPA SYNERGY TABS

### Other means of identification

**Product Code** H4987

**UN/ID no.** UN2468

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spa Sanitizer

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

KIK HOLDCO COMPANY INC.  
33 MacIntosh Blvd.  
Concord, ON L4K 4L5  
1-888-640-7946

### Emergency telephone number

**Emergency Telephone** Poison Control Center (Medical) : (877) 800-5553  
Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Fatal if inhaled \*\*  
Causes severe skin burns and eye damage

Suspected of damaging fertility or the unborn child  
May cause respiratory irritation  
May intensify fire; oxidizer



**\*\* Product as sold is not expected to produce respiratory effects. See Section 11 (Toxicological Information) for additional details on inhalation.**

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
In case of inadequate ventilation wear respiratory protection  
Keep away from clothing and other combustible materials  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

#### **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor

#### **Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
Wash contaminated clothing before reuse  
If skin irritation occurs: Get medical advice/attention

#### **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor

#### **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
Immediately call a POISON CENTER or doctor

#### **Fire**

In case of fire: Water only; no dry chemical, CO<sub>2</sub> or Halon

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Information**

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

**Unknown acute toxicity** 99.95375 % of the mixture consists of ingredient(s) of unknown toxicity  
8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Trichloro-s-triazinetriene	87-90-1	91.5	-	-
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	3 - 7	-	-

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Have person sip a glass of water if able to swallow. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Flood fire area with water from a distance.

<b>Unsuitable extinguishing media</b>	Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.
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#### Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may

generate nitrogen trichloride, an explosion hazard.

**Hazardous combustion products** Chlorine gas. Nitrogen trichloride. Nitrogen. Phosgene. Cyanogen chloride. Carbon oxides.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** This material is toxic to aquatic life. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

**Methods for cleaning up** Use personal protective equipment as required. Avoid generation of dust. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Do not use floor sweeping compounds to clean up spills. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Do not mix with other chemicals. Keep away from contact with clothing and other combustible materials to avoid fire. Remove contaminated clothing and shoes. Wash thoroughly after handling. Use only in well-ventilated areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

#### Other Information

Chlorine and chlorine compounds may be found in slight amounts in the head space of containers of this product.

### Appropriate engineering controls

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Hand protection

Rubber gloves.

#### Skin and body protection

Wear suitable protective clothing.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Solid
Appearance	tablet
Color	white
Odor	Chlorine
Odor threshold	No information available

#### Property

#### Values

#### Remarks • Method

pH	2.9	in 1% Solution
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	



Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available.
Oxidizing properties	No information available.

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	0.85 g/cm <sup>3</sup>
Bulk density	No information available

**10. STABILITY AND REACTIVITY**

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight. Protect from moisture. Do not mix with other chemicals.
Incompatible materials	Incompatible with strong acids and bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Combustible material. Reducing agent.

**Hazardous Decomposition Products** Chlorine gas. Nitrogen trichloride. Nitrogen. Cyanogen chloride. Phosgene. Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Inhalation	This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.
Eye contact	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
Skin contact	Irritating to skin. Contact with moist skin may cause skin burns.
Ingestion	Harmful if swallowed.

**Information on toxicological effects**

Symptoms	May cause redness and tearing of the eyes.
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**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	546.00 mg/kg
ATEmix (dermal)	2,186.00 mg/kg
ATEmix (inhalation-dust/mist)	0.22 mg/l

**Unknown acute toxicity**

99.95375 % of the mixture consists of ingredient(s) of unknown toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

8.37875 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.95375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

8.37875 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Oral LD50**

651 mg/kg (rat)

**Dermal LD50**

&gt; 2,000 mg/kg (rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloro-s-triazinetriene 87-90-1	= 406 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	>50 mg/L ( Rat ) 4 h
Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.

**Serious eye damage/eye irritation**

Risk of serious damage to eyes. May cause burns.

**Respiratory or skin sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

**Reproductive toxicity**

This product contains a boron compound. This boron compound when fed to test animals at very high doses has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in this product does not represent a practical risk to humans.

**STOT - single exposure**

May cause respiratory irritation.

**STOT - repeated exposure**

No information available.

**Target Organ Effects**

Eyes, Respiratory system, Skin.

**Aspiration hazard**

No information available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trichloro-s-triazinetriene 87-90-1	-	0.13 - 0.5: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.06 - 0.11: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	-	0.16 - 0.18: 48 h <i>Daphnia magna</i> mg/L EC50 Static 0.21: 48 h <i>Daphnia magna</i> mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Waste from residues/unused products**  
**Contaminated packaging**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
Do not reuse empty containers.

**14. TRANSPORT INFORMATION**

**Note:** Limited quantity (LQ) exception is possible

**TDG**

<b>UN/ID no.</b>	UN2468
<b>Proper shipping name</b>	Trichloroisocyanuric acid, dry, mixture
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>Description</b>	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

**DOT**

<b>UN/ID no.</b>	UN2468
<b>Proper shipping name</b>	Trichloroisocyanuric acid, dry, mixture
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>Description</b>	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II
<b>Emergency Response Guide Number</b>	140

**IATA**

<b>UN/ID no.</b>	UN2468
<b>Proper shipping name</b>	Trichloroisocyanuric acid, dry, mixture
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>Description</b>	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

**IMDG**

<b>UN/ID no.</b>	UN2468
<b>Proper shipping name</b>	Trichloroisocyanuric acid, dry, mixture
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>EmS-No.</b>	F-A, S-Q
<b>Marine pollutant</b>	This material meets the definition of a marine pollutant
<b>Description</b>	UN2468 Trichloroisocyanuric acid, dry, mixture, 5.1, II

**15. REGULATORY INFORMATION****Regulatory information****Canadian Federal Regulations**

**PCP Registration Number** 26666

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Instability</b> 1	<b>Physical and chemical properties -</b>
<b>HMIS</b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Physical hazards</b> 1	<b>Personal protection</b> X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 09-May-2018**Revision Note** No information available.**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.