SECTION 1 MATERIAL NAME / IDENTIFIER

Algaecide 40% WHMIS: Not regulated under WHMIS. It is regulated under the

Pest Control Product Act (PCP).

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable

Chemical Family: Pesticide

Chemical Formula: Not available

Trade Name & Synonyms: WSCP Solution

Molecular Weight: Not available

Material Use: Algaecide for swimming pools

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Acute toxicity, Oral, Category 5

Hazardous to the aquatic environment, Acute hazard, Category 1

Symbol(s)



Signal Word Warning

Hazard statements H303 May be harmful if swallowed.

H400 Very toxic to aquatic life.

Precautionary statements P273 Avoid release to the environment.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Poly(oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene

dichloride)

SECTION 4

FIRST AID MEASURES

Inhalation: Remove person to fresh air. If person experiences nausea, headaches, dizziness or has difficulty

breathing, contact a physician immediately.

Skin Contact: Wash hands thoroughly with soap and water. Should irritation occur, contact a physician.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Seek medical attention if irritation persists.

Ingestion: Drink 2 or 3 glasses of water to dilute material. Do not induce vomiting. Contact a physician.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Smoke and oxides of nitrogen and carbon.

Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical, water should be used to cool

surrounding containers.

Instructions to the Fire Fighters: Wear proper Protective Equipment. See below.

Fire Fighting Protective Equipment: Wear full protective clothing and a positive pressure self-contained breathing

apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Block any potential routes to sewers, streams, lakes or rivers. Absorb with

absorbent materials and dispose into metal containers. Flush residue with water.

31512-74-0

40

Block any potential routes to sewers, streams, lakes or rivers.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Do not mix directly with other chemicals. Wear gloves and safety glasses when

handling.

Ventilation Requirements: Use in well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Keep containers closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Use in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): None

Other (Specify): Eye wash and shower stations are close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear blue liquid, slight sweet odour.

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)

Not available

Specific Gravity: 1.094

Viscosity: Not available
Vapour Pressure (mm): Not available
Vapour Density (Air-1): Not available

Flashpoint (°C) None

Evaporation Rate Not available

Boiling Point (°C): >100°C (212°F)

Freezing Point (°C): 0°C

Solubility In Water (20°C): Soluble
% Volatile (By Weight) 60%

PH: 6.0 - 8.0

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes \underline{X} No

If So, Which Ones: Anionic polymers

Conditions to Avoid: See above

Hazardous Decomposition Products: Carbon monoxide may be formed upon burning.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation:May cause irritation to the respiratory tract.Skin Contact:None expected on short term exposure.

Eye Contact: Mild irritant

Ingestion: Harmful if swallowed. No data available on human ingestion. **CHRONIC HEALTH EFFECTS:** Prolonged or repeated skin contact may cause irritation.

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): ATEmix: 2774mg/kg, Oral (Rat), >2000mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Route): Not available

Exposure (Limits):Not establishedIrritancy of MaterialMild eye irritant.Sensitization of MaterialNone knownSynergistic MaterialsNone known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Poly(oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride) 60%

LC50: 0.353mg/l 48h (fathead minnow)

0.044mg/l 48h (rainbow trout)

0.660mg/l 24h (harlequinfish, red rasbora)

Environmental Fate

Biodegradability: Not available

Bioaccumulative Potential: Toxic to aquatic life. Unknown effect.

Mobility In Soil: Unknown effect.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed material in accordance to federal, provincial and local regulations.

Safe Handling of Residues: Flush residue with copious amounts of water.

Disposal of Packaging: Dispose absorbed material in accordance to federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

IMDG

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

IATA

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA

DSL and NDSL: Not Listed.

WHMIS: Not regulated under WHMIS. It is regulated under the Pest Control Products Act (PCP).

USA

SARA (302 Extremely hazardous substances list): No components of this product are listed.

SARA (312 Hazard category): Immediate (acute) health hazard.

SARA (313 Toxic chemicals list): No components of this product are listed.

TSCA: Not listed.

FIFRA: This product is a registered pesticide.

INTERNATIONAL

Mexico, China, Korea and Taiwan: Listed Australia, Japan and Philippines: Not listed.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 17, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

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SECTION 1 MATERIAL NAME / IDENTIFIER

Algaecide 60% WHMIS: Not regulated under WHMIS. It is regulated under the Pest

Control Product Act (PCP).

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable

Chemical Family: Pesticide

Chemical Formula: Not available

Trade Name & Synonyms: WSCP Solution

Molecular Weight: Not available

Material Use: Algaecide for swimming pools

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Acute toxicity, Oral, Category 4

Hazardous to the aquatic environment, Acute hazard, Category 1

Symbol(s)



Signal Word Warning

Hazard statements H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

Precautionary statements P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell.

P330 Rinse mouth.
P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulations.

NFPA: 1 Health, 0 Fire, 0 Reactivity HMIS: 1 Health, 0 Fire, 0 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Poly(oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene 31512-74-0 60

dichloride)

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If person experiences nausea, headaches, dizziness or has difficulty

breathing, contact a physician immediately.

Skin Contact: Wash hands thoroughly with soap and water. Should irritation occur, contact a physician. **Eye Contact:** Flush eyes with plenty of water for 15 minutes. Seek medical attention if irritation persists.

Ingestion: Drink 2 or 3 glasses of water to dilute material. Do not induce vomiting. Contact a physician.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Smoke and oxides of nitrogen and carbon.

Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical, water should be used to cool

surrounding containers.

Instructions to the Fire Fighters: Wear proper Protective Equipment. See below.

Fire Fighting Protective Equipment: Wear full protective clothing and a positive pressure self-contained breathing

apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Block any potential routes to sewers, streams, lakes or rivers. Absorb with

absorbent materials and dispose into metal containers. Flush residue with water.

Block any potential routes to sewers, streams, lakes or rivers.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Do not mix directly with other chemicals. Wear gloves and safety glasses when

handling.

Ventilation Requirements: Use in well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Keep containers closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Use in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): None

Other (Specify): Eye wash and shower stations are close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear blue liquid, slight sweet odour.

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable Upper Explosion Limit (% By Volume): Not applicable Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C)Not available

Specific Gravity: 1.15

Viscosity: 125 CST (Kinematic)

Vapour Pressure (mm): Not available
Vapour Density (Air-1): Not available

Flashpoint (°C) Closed cup: >100°C (212°F). (Tagliabue)

Evaporation RateNot available **Boiling Point (°C):** >100°C (212°F)

Freezing Point (°C): 0°C

Solubility In Water (20°C): Soluble

% Volatile (By Weight) 40%

PH: 6.0 – 8.0

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes \underline{X} No

If So, Which Ones: Anionic polymers

Conditions to Avoid: See above

Hazardous Decomposition Products: Carbon monoxide may be formed upon burning.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: May cause irritation to the respiratory tract.

Skin Contact: None expected on short term exposure.

Eye Contact: Mild irritant

Ingestion: Harmful if swallowed. No data available on human ingestion.

CHRONIC HEALTH EFFECTS: Prolonged or repeated skin contact may cause irritation.

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): 1850 mg/l, Oral (Rat), >2000 mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Route): Not available

Exposure (Limits): Not established Irritancy of Material Mild eye irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

LC50: 0.353mg/l 48h (fathead minnow)

0.044mg/l 48h (rainbow trout)

0.660mg/l 24h (harlequinfish, red rasbora)

Environmental Fate

Biodegradability: Not available

Bioaccumulative Potential: Toxic to aquatic life. Unknown effect.

Mobility In Soil: Unknown effect.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed material in accordance to federal, provincial and local regulations.

Safe Handling of Residues: Flush residue with copious amounts of water.

Disposal of Packaging: Dispose absorbed material in accordance to federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

IMDG

Proper shipping name: Not regulated

Class: Not applicable
Packing group: Not applicable
UN: Not applicable

IATA

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA

DSL and **NDSL**: Not Listed.

WHMIS: Not regulated under WHMIS. It is regulated under the Pest Control Products Act (PCP).

USA

SARA (302 Extremely hazardous substances list): No components of this product are listed.

SARA (312 Hazard category): Immediate (acute) health hazard.

SARA (313 Toxic chemicals list): No components of this product are listed.

TSCA: Not listed.

FIFRA: This product is a registered pesticide.

INTERNATIONAL

Mexico, China, Korea and Taiwan: Listed Australia, Japan and Philippines: Not listed.

SECTION 16

OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 17, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

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SECTION 1 MATERIAL NAME / IDENTIFIER

ALKAJUSTER / ALKA UP WHMIS: Not Regulated

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Sodium Bi Carbonate

Chemical Family: Bi Carbonates

Chemical Formula: NAHC03

Trade Name & Synonyms: Baking Soda

Molecular Weight: 84.0

Material Use: Pool Water Alkalinity Booster

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: None

Symbol(s): None

Signal Word: None

Hazard statements: None

Precautionary statements: None

NFPA: 0 Health, 0 Fire, 0 Reactivity HMIS: 0 Health, 0 Fire, 0 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

No regulated components

SECTION 4 FIRST AID MEASURES

Inhalation: If respiratory problems arise, move the victim to fresh air. Give artificial respiration ONLY

If breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing

AND no pulse. Obtain medical advice IMMEDIATELY.

Skin Contact: Start flushing while removing contaminated clothing. Wash affected areas thoroughly with

soap and water. If irritation, redness, or a burning sensation develops and persists, obtain

medical advice.

Eye Contact: Immediately flush eyes thoroughly for 15 minutes with running water. Hold eyelids open during

flushing. If irritation persists, repeat flushing. Obtain medical attention. Do not allow victim to

rub eyes. Do not attempt to manually remove anything stuck to the eye(s).

Ingestion: Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not

convulsing, rinse mouth out and give ½ to 1 glass of water to dilute material. DO NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention

IMMEDIATELY.

Note to physicians: Treat symptomatically. Sodium salts have a hypothetical risk of hypernatremia. In

addition to calcium levels, sodium and phosphate levels should be monitored.

Medical conditions that may be aggravated by exposure to this product include diseases

of the skin, eyes or respiratory tract.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Thermal decomposition products are toxic and may include soda

ash (sodium carbonate) oxides of sodium, carbon and irritating

gases. Sodium bicarbonate begins to decompose at 50°C,

releasing carbon dioxide, sodium carbonate and water. Total decomposition occurs at 270°C.

Unusual Fire or Explosion Hazards: Avoid accumulation and dispersion of dust. Sp

Avoid accumulation and dispersion of dust. Spilled material may

cause floors and contact surfaces to become slippery. Do not flush with water as aqueous solutions or powders that become wet render surfaces extremely slippery. Enforce NO SMOKING

rules.

Sensitivity to Mechanical Impact: None.

Rate of Burning: Not available.

Explosive Power: Not available.

Sensitivity to Static Discharge: None.

Fire Extinguishing Media: Is used as an extinguishing agent for all classes of fires. Use

Media appropriate for surrounding fire and/or materials.

Instructions to the Fire Fighters: Isolate materials that are not involved in the fire and protect

personnel. Do not flush with water as aqueous solutions or powders that become wet render surfaces extremely slippery.

Spilled material may cause floors and contact surfaces to

become slippery.

Fire Fighting Protective Equipment: Use self-contained breathing apparatus and protective clothing.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure:

In all cases of leak or spill contact vendor at Emergency Number shown on the front page of this MSDS. Minimize airborne spreading of dust. Wear respirator, protective clothing and gloves. Avoid dry sweeping. Do not use compressed air to clean surfaces. Vacuuming or wet sweeping is preferred. Return all material possible to container for proper disposal. Do not allow to enter sewers or watercourses.

Any recovered product can be used for the usual purpose, depending on the Extent and kind of contamination. Where a package (drum or bag) is damaged and/or leaking, repair it, or place it into an over-pack drum immediately so as to avoid or minimize material loss and contamination of surrounding environment. Replace damaged containers immediately to avoid loss of material and contamination of surrounding atmosphere. Ventilate enclosed spaces. Notify applicable government authority if release is reportable or could adversely affect the environment.

SECTION 7

HANDLING AND STORAGE

HANDLING

Handling Practices: Use normal "good" industrial hygiene and housekeeping practices. Avoid

Accumulation and dispersion of dust. Clean up immediately to eliminate hazard.

Ventilation Requirements: See Section 8, "Engineering Controls".

Other Precautions: Use only with adequate ventilation and avoid breathing dusts. Avoid contact with

Eyes, skin or clothing. Wash thoroughly with soap and water after handling. Wash

Contaminated clothing thoroughly before reuse.

STORAGE

Ventilation Requirements: General exhaust is acceptable.

Storage Requirements: Store in a cool, dry and well-ventilated area. Keep away from heat, sparks and

flames. Keep containers closed. Avoid moisture contamination. Prolonged storage

may result in lumping or caking. Protect from direct sunlight. Protect against physical damage.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: General exhaust is acceptable. Local exhaust ventilation preferred.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Gloves and protective clothing made from cotton, leather, rubber or plastic should be

impervious under conditions of use. Prior to use, user should confirm impermeability.

Discard contaminated gloves.

Eye (Specify): Safety glasses with side shields are recommended to prevent eye contact. Use

Chemical safety goggles when there is potential for eye contact. Contact lenses

Should not be worn when working with this material.

Respiratory (Specify): Use dust mask for concentrations of nuisance dust up to 100mg/m3 particulate. An

Air-supplied respirator if concentrations are higher or unknown.

Other (Specify): None.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Odourless, opaque, white powder

Odour Threshold (Ppm): Not applicable
Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C): 270°C

Flammability: Yes No X

If Yes, Under Which Conditions?:

Not applicable

Viscosity (cps): Not applicable

Specific Gravity: 2.16

Vapour Pressure (Mm):Not applicableVapour Density (Air-1):Not applicableFlashpoint (C)Not flammableEvaporation RateNot applicable

Boiling Point (C): loses C02 at 270 deg C

Freezing Point (C): Not applicable

Solubility In Water (20c): 9.6 g/100g water

% Volatile (By Weight)
 Ph: 8.50 (1% solution)
 Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?: Not applicable

Incompatibility To Other Substances: Yes \underline{X} No If So, Which Ones: Strong oxidizers, acids

Conditions to Avoid: High temperatures, sparks, open flames and all other sources of

ignition. Minimize air borne spreading of dust. Avoid direct sunlight and

moisture contamination. Hygroscopic.

Hazardous Decomposition Products: Thermal decomposition products are toxic and may include soda ash

Oxides of sodium, carbon and irritating gases.

Sodium bicarbonate begins to decompose at 50°C, releasing carbon Dioxide, sodium carbonate and water. Total decomposition occurs at

270°C.

SECTION 11

TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation: Product may be mildly irritating to the nose, throat and respiratory and may

cause coughing and sneezing. Excessive contact with powder may cause drying of mucous membranes of nose and throat due to absorption of moisture and oils.

See "Other Health Effects" Section.

Skin Contact: This product may cause irritation due to abrasive action. Excessive contact with

powder may cause drying of the skin due to absorption of moisture and oils.

Skin Absorption: Not likely to be absorbed through the skin.

Eye Contact: This product may cause irritation, redness and possible damage due to

abrasiveness. Excessive contact with powder may cause drying of mucous

membranes of the eyes due to absorption of moisture and oils.

Ingestion: Ingestion is not likely route of exposure. This product may cause mild

gastrointestinal discomfort.

Other Health Effects: May cause central nervous system (CNS) depression, metabolic alkalosis,

hypernatremia and pneumoconiosis. CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting and incoordination. Severe overexposures may lead to coma and possible death due to

respiratory failure.

LD 50 of Material (Specify Species and Routes) 4220mg/kg Oral, Rat

LC 50 of Material (Specify Species and Routes) N/A

Exposure (Limits): ACGIH – TLV 10mg/m3 –nuissance dust; OSHA – TWA 15mg/m3 total dust –

5mg/m3 respire fraction.

Irritancy of Material Mild skin and eye irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: May be harmful to aquatic life.

Sodium Bicarbonate

96-hour LC50 (Lepomis macrochirus) = 7100 mg/ll

48-hour LC50 (Culex sp. Larvae or mosquito) = 2000 mg/l

Environmental Fate: Product has an unaesthetic appearance and can be a nuisance. Can be

dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds or rivers.

Degradability: Not applicable

Bioaccumulative Potential: Not applicable

Mobility In Soil: Not applicable

SECTION 13 DISPOSAL CONSIDERATIONS

Deactivating Chemicals: None required.

Waste Disposal: Dispose of waste material at a municipal landfill site should be satisfactory.

Safe Handling of Residues: Empty containers that contain product residue. No special treatment required.

Disposal of Packaging: Recycling is encouraged. Treat package in the same manner as the product. Empty

package may be disposed of with normal garbage.

SECTION 14 TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

This product is not regulated by TDG.

Label(s): Not applicable Placard: Not applicable.

ERAP Index: ------ Exemptions: None known.

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

This product is not regulated by DOT

Label(s): Not applicable. Placard: Not applicable. CERCLA-RQ: Not available. Exemptions: Not available.

SECTION 15

REGULATORY INFORMATION

CANADA

CEPA – NSNR: This material is included on the DSL under the CEPA

CEPA – NPRI: Not included.

CANADIAN FOOD AND DRUG ACT/REGULATIONS: The use of this material/product as a food additive is regulated by

Health Canada in the Food and Drug Act and the Food and Drug Regulations. It is incumbent on the user of this material/product to Ensure any intended food application is consistent with Health Canada guidelines. Food Grade designation in no way implies

That the product is safe for consumption by humans.

WHMIS: Not Regulated.

USA

Environmental Protection Act: This material is included on the TSCA Inventory.

U.S. FOOD AND DRUG ADMINISTRATION: This material/product is regulated for use by the US FDA. It is incumbent

on the user of this material/product to ensure any intended food

application is consistent with US FDA guidelines. Food Grade designation

in no way implies that the product is safe for consumption by humans.

INTERNATIONAL

Sodium Bicarbonate is found on the following inventories: EINECS (European Inventory of Existing Commercial Chemical Substances).

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: January 1, 1996
Date Revised: December 1, 2018

Additional Notes Or References:

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SECTION 1 MATERIAL NAME / IDENTIFIER

Bromaid WHMIS: Not regulated under WHMIS. It is a registered

pest control product under (PCP).

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Sodium Bromide Solution

Chemical Family: Inorganic Salt

Chemical Formula: NaBr

Trade Name & Synonyms: Not applicable

Molecular Weight: Not applicable

Material Use: Spa disinfectant

SECTION 2 HAZARDS IDENTIFICATION

GHS classification:

Symbol(s):

None

Signal Word

None

Hazard statements

None

Precautionary statements

None

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

No regulated components

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If breathing is difficult give artificial respiration and seek medical

attention.

Skin Contact: Wash hands thoroughly with soap and water.

Eye Contact: Flush eyes with copious amounts of water for 15 minutes. Seek medical attention.

Ingestion: Drink 2 or 3 glasses of water. Do not induce vomiting, and contact a physician.

Note to physicians No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Above 500°C toxic bromine fumes are released.

Unusual Fire or Explosion Hazards: Not applicable

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media appropriate for surrounding fire.

Instructions to the Fire Fighters: Cool containers exposed to fire with water spray.

Fire Fighting Protective Equipment: Wear full protective clothing and a NIOSH approved self-contained breathing

apparatus in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Avoid dispersal of spilled material into contact with waterways, drains, sewers

and soil. Move containers from spill area. Absorb spill with synthetic or natural absorbent and sweep into a clean, dry and labelled container for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid prolonged skin contact. Wash hands thoroughly after use. Wear gloves and safety

glasses when handling.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Keep away from direct sunlight. Keep away from incompatible materials, food and drink.

Keep containers closed when not in use. Store containers upright to prevent leakage.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation to keep airborne concentrations below the exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Butyl or natural rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): None under normal conditions. If exposure to airborne concentrations is above exposure

limits wear a self-contained breathing apparatus.

Other (Specify): Eye wash and shower stations are close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear blue liquid, odourless

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Use media appropriate for surrounding fire.

Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)
Above 500°C

Specific Gravity: 1.360

Viscosity:

Vapour Pressure (mm):

Vapour Density (Air-1):

Flashpoint (°C)

Evaporation Rate

Not available

Not applicable

Not applicable

Boiling Point (°C): 100°C

Freezing Point (°C): 0°C

Solubility In Water (20°C): Soluble

% Volatile (By Weight) 65%

PH: 6 - 8

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Acids, strong oxidants and heavy metal salts.

Conditions to Avoid: Will react violently with bromine trifluoride.

Hazardous Decomposition Products: Bromine fumes

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: None under normal conditions. Mists may be irritating to the respiratory tract.

Skin Contact: Slightly irritating to the skin

Eye Contact: Slightly irritating to the eyes.

Ingestion: Stomach upset and nausea.

CHRONIC HEALTH EFFECTS: None

Other Health Effects: Prolonged skin contact may cause mild irritation.

LD 50 of Material (Specify Species and Routes): ATEmix: 12004.8mg/kg, Oral (Rat), >2000 mg/kg, Oral (Rabbit)

LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Not available

Irritancy of Material Mild skin, eye and respiratory tract irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity Sodium Bromide is an inorganic salt, which fully dissociates in aquatic environment to

bromide and sodium ions. It also undergoes degradation in soil to bromide ion (no

Further degradation or biodegradation will occur).

Sodium Bromide

96 h, LC50 Fish: >1000 mg/l (rainbow trout)

>1000 mg/l (bluegill sunfish)

48 h, EC50, Daphnia magna: >1000 mg/l Oral LD50, Bobwhite quail: >2250 mg/kg Dietary LC50, Mallard duck: >5633 ppm

Dietary LC50, Bobwhite quail: >5633 ppm

Environmental Fate

Biodegradability: Not relevant for inorganic salts.

Bioaccumulative Potential: Not expected to bioaccumulate. BCF=0.23-1.41

Mobility In Soil: Not relevant for inorganic salts.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush residue with copious amounts of water.

Disposal of Packaging: Dispose containers in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA Listed in DSL.

PCP: This product is a registered pesticide.

USA Reported in the EPA TSCA Inventory. This product is registered under FIFRA.

INTERNATIONAL Reported in EINECS(Europe), listed in AICS(Australia), NZIoC(New Zealand), IECSC(China), ECL

KE-31368 (Korea), PICCS(Philippines), and ENCS no. 1-113, ISHL no. 1-113(Japan)

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: November 16, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

Safety Data Sheet

Product Identifier

Manufacturer's Name: CAPO INDUSTRIES LTD. Street Address: 1200 Corporate Drive

City: Burlington, Ontario, CANADA

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)(Transport)

SECTION 1. IDENTIFICATION

Product Identifier Cal Rise

Other Means of Identification Calcium Chloride

Recommended Use Hardness Booster

Restrictions on Use Not available

Initial Supplier Identifier Capo Industries Ltd.

Emergency Telephone Number (905) 332-6626 (Non-Transport)

SECTION 2. HAZARD IDENTIFICATION

GHS Classification Acute toxicity, Oral, Category 4

Eye irritation, Category 2A

Label Elements



Signal Word: Warning

Hazard Statements: H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary Statements: P264 Wash hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P301+P317 IF SWALLOWED: Get medical help.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

Cal-Rise Page 1 of 8

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P330 Rinse mouth.

P337+P317 If eye irritation persists: Get medical help.

P501 Dispose of contents/container in accordance with all local regulations.

Other Hazards

- Calcium Chloride is hygroscopic and is capable of absorbing moisture from the air to become liquid.
 Chlorides in the presence of water and oxygen are associated with the accelerated corrosion of common metals, such as steel, copper, and brass.
- Calcium Chloride has an exothermic heat of solution and solid products release a large amount of heat when dissolved in water.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms	
Calcium Chloride	10043-52-4	83 – 87	Not available	
Water	7732-18-5	8 – 14	Not available	
Potassium Chloride	7447-40-7	2 – 3	Not available	
Sodium Chloride	7647-14-5	1 – 2	Not available	

Notes

Potassium chloride and sodium chloride are impurities from the naturally occurring source material, brine solution.

SECTION 4. FIRST-AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is difficult get medical help.

Skin Contact

Flush skin with running water for 20 minutes. If irritation persists, repeat flushing. Get medical help. Take off contaminated clothing and wash it before reuse.

Eve Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical help.

Ingestion Rinse mouth. Do not induce vomiting. Get medical help if you feel unwell.

Most Important Symptoms and Effects, Acute and Delayed

Causes serious eye irritation with redness and burning. Direct contact with abraded skin may cause erythema and burns. Inhalation of dust may cause upper respiratory tract irritation.

Immediate Medical Attention and Special Treatment

Due to irritant properties, resulting from heat created as solid material dissolves in water, swallowing may result in burns/ulceration of mucous membranes. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Cal-Rise Page 2 of 8

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing MediaUse water, dry chemical, CO₂, or foam to extinguish.

Unsuitable Extinguishing Media Not available

Specific Hazards Arising from the Product

Avoid direct contact of this product with water as this can cause an exothermic reaction.

Special Protective Equipment and Precautions for Fire-Fighters

Keep unnecessary people away, isolate hazard area and deny entry. This material does not burn. Fight fire for other material that is burning. Water should be applied in large quantities as fine spray. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Wear protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard on some surfaces. Use appropriate safety equipment. Contain spill if safe to do so. Prevent spill from entering sewers or water courses.

Methods for Containment and Cleaning Up

Collect spilled material in suitable and properly labeled containers. Flush with plenty of water.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with eyes, skin, and clothing. Wash skin and contaminated clothing thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves, protective clothing, and eye protection when handling. Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80°F, 27°C).

Conditions for Safe Storage

Store in a cool, dry place. Protect from atmospheric moisture. Keep container tightly closed. Keep separated from incompatible substances.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Limits Canada TWA's (Ontario) Calcium Chloride: 5 mg/m³

Cal-Rise Page 3 of 8

Appropriate Engineering Controls

Local exhaust ventilation. Ensure eye wash and shower stations are close to work area.

Individual Protection Measures

Eye/Face Protection Safety glasses if eye contact is likely.

Skin Protection Latex or rubber gloves if prolonged skin contact is likely.

Respiratory Protection Wear appropriate dust mask if prolonged use in non-ventilated area is unavoidable.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Opaque white flakes

Odour Odourless

Odour Threshold No data available

pH 8 – 10 (5% solution)

Melting Point and Freezing Point 772°C (1422°F)

Initial Boiling Point and Boiling Range 1935°C (3515°F)

Flash Point Not applicable

Evaporation Rate Not applicable

Flammability (solid, gas) Not applicable

Upper and Lower Flammability or Explosive Limit Not applicable

Vapour Pressure Negligible at ambient temperature.

Vapour Density (air = 1) Not applicable

Bulk Density $850 - 900 \text{ kg/m}^3$

Solubility in Water Soluble

Solubility in Other Liquids No data available

Partition Coefficient, n-Octanol / Water (Log Kow) No data available

Auto-ignition Temperature Not applicable

Decomposition Temperature Not applicable

Viscosity Not applicable

Cal-Rise Page 4 of 8

SECTION 10. STABILITY AND REACTIVITY

Reactivity Hygroscopic. Liberates large amounts of heat when dissolving in water or aqueous acids.

Chemical Stability Stable at normal temperatures and pressures.

Possibility of Hazardous Reactions Avoid moisture.

Conditions to Avoid Avoid excessive amounts of heat.

Incompatible Materials

Avoid contact with: Bromide trifluoride, 2-furan percarboxylic acid because calcium chloride is incompatible with those substances. Contact with zinc forms flammable hydrogen gas, which can be explosive. Catalyzes exothermic polymerization of methyl vinyl ether. Attacks metals in the presence of moisture and may release flammable hydrogen gas. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromates.

Hazardous Decomposition Products

Thermal decomposition products are toxic and may include Hydrochloric acid and oxides of calcium and chlorine oxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

X Inhalation X Skin contact X Eye contact X Ingestion

Acute Toxicity

LC₅₀ (Inhalation) ATE mix: No data available

LD₅₀ (Oral) ATE mix: 1126 mg/kg, Oral

LD₅₀ (Dermal) ATE mix: 2637 mg/kg, Dermal

Ingestion

Low toxicity if swallowed. Small amounts swallowed are not likely to cause injury. Large amounts swallowed may cause local mucosal damage to esophagus and stomach. Swallowing may result in gastrointestinal irritation or ulceration.

Inhalation Dust may cause irritation to upper respiratory tract (nose and throat).

Skin Corrosion / Irritation

Direct contact with abraded skin may cause erythema and burns. Prolonged contact and occlusion may cause more severe symptoms.

Serious Eye Damage / Irritation Severe irritation. May cause corneal damage and conjunctivitis.

STOT (Specific Target Organ Toxicity) - Single Exposure No data available

Aspiration Hazard No data available

Cal-Rise Page 5 of 8

STOT (Specific Target Organ Toxicity) - Repeated Exposure No data available

Respiratory and/or Skin Sensitization Not sensitizing to skin or respiratory tract.

Carcinogenicity This product is not classified as a carcinogen by NTP, IARC or OSHA.

Reproductive Toxicity

Development of Offspring None known

Sexual Function and Fertility None known

Effects on or via Lactation None known

Germ Cell Mutagenicity None known

Interactive Effects None known

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Material is practically non-toxic to aquatic organisms on an acute basis. (LC50/EC50/EL50/LL50>100mg/L in the most sensitive species tested).

Fish Toxicity:

LC50 (96 hr), bluegill (Lepomis macrochirus): >9500 - 13400 mg/l LC50 (96 hr), fathead minnow (Pimephales promelas): 4630 mg/l

Invertebrate Toxicity:

EC50 (48 hr), Daphnia magna: 2800 mg/l NOEC (21 days), Daphnia magna: 230 mg/l

Fate and Transport

Persistence

Calcium chloride is believed not to persist in the environment because it is readily dissociated into calcium and chloride ions in water. Calcium chloride released into the environment is thus likely to be distributed into the water in the form of calcium and chloride ions. Calcium ions may remain in soil by binding to soil particulate or by forming stable salts with other ions. Chloride ions are mobile and eventually drain into surface water. Both ions originally exist in nature, and their concentrations in surface water will depend on various factors, such as geological parameters, weathering, and human activities.

Biodegradation This material is inorganic and not subject to biodegradation.

Cal-Rise Page 6 of 8

Bioconcentration

No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Koc between 0 and 50). Partitioning from water to n-octanol is not applicable.

Bioaccumulative Potential

Calcium chloride and its dissociated forms (calcium and chloride ions) are ubiquitous in the environment. Calcium and chloride ions can be found as constituents in organisms. Considering its dissociation properties, calcium chloride is not expected to accumulate in living organisms.

Mobility in Soil

Calcium chloride is not expected to be absorbed in soil due to its dissociation properties and high water solubility. It is expected to dissociate into calcium and chloride free ions, or it may form stable salts with other ions, leading to different fates between calcium and chloride ions in soil and water components. Calcium ions may bind to soil particulate or may form stable inorganic salts with sulfate and carbonate ions. The chloride ion is mobile in soil and eventually drains into surface water because it is readily dissolved in water.

Other Adverse Effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste Disposal: Dispose material in accordance with Federal, Provincial, and local government

regulations. Do not dispose of wastes in local sewer or with normal refuse.

Safe Handling of Residues: Flush residue with plenty of water.

Disposal of Packaging: Dispose of container in accordance with Federal, Provincial, and local

government regulations. Container rinsate must be disposed of in compliance

with applicable regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
TDG	Not Regulated				
US DOT	Not Regulated				

Special Precautions None

Environmental Hazards None

SECTION 15. REGULATORY INFORMATION

Safety, Health, and Environmental Regulations

CANADA

DSL/NDSL: All components of this product are listed on either the DSL or the NDSL.

USA

TSCA (Toxic Substances Control Act): All components are listed on the TSCA.

California Proposition 65: This product is not listed on the California Governor's current list of Carcinogens,

Reproductive Toxicants, and/or Candidate Carcinogens (Proposition 65).

Cal-Rise Page 7 of 8

SECTION 16. OTHER INFORMATION

Prepared By (Group, Department): Quality Assurance Telephone: (905) 332-6626

Preparation Date: January 1, 1996

Date of Latest Revision: April 18, 2022

Additional Notes or References:

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Cal-Rise Page 8 of 8

SECTION 1 MATERIAL NAME / IDENTIFIER

Cartridge Cleaner WHMIS: E

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name:

Chemical Family:

Not applicable

Not applicable

Proprietary blend

Trade Name & Synonyms:

Not applicable

Not applicable

Not applicable

Material Use: Spa Cartridge Cleaner

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H302 Acute toxicity, Oral, Category 4

H314 Skin corrosion/irritation, Category 1B

H318 Serious eye damage/eye irritation, Category 1

H335 Specific target organ toxicity, Single exposure, Respiratory tract irritation,

Category 3

H401 Hazardous to the aquatic environment, Acute Hazard, Category 2

Symbol(s)





Signal Word Danger

Hazard statements Harmful is swallowed. Causes severe skin burns and eye damage. May cause

respiratory irritation. Toxic to aquatic life.

Precautionary statements Do not ingest. If ingested, drink 2 to 3 glasses of water to dilute. Do not induce

vomiting. Seek immediate medical attention. Avoid skin and eye contact. Wear gloves and safety glasses when handling. Wash hands thoroughly after use. If in

eyes, flush with copious amounts of water for 20 minutes and seek medical

Cartridge Cleaner Page 1

attention. Use in a well ventilated area. Avoid breathing in mists/vapours/fumes. If inhaled, remove person to fresh air and seek medical attention. Avoid release into the environment.

SECTION 3	COMPOSITION, INFORMATION ON INGREDIENTS
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Ingredient CAS# % Concentration

Tetrasodium Ethylene Diamine Tetraacetate 64-02-8 1 - 5

Sodium Hydroxide 1310-73-20 3 - 7

SECTION 4 FIRST AID MEASURES

Inhalation: If mists are inhaled, remove person to fresh air and seek medical attention.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush eyes with copious amounts of water for 20 minutes. Seek medical attention if irritation

persists.

Ingestion: Drink 2 or 3 glasses of water to dilute and contact a physician immediately. Do not induce vomiting

unless advised by a physician or poison control centre.

Note to physicians Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower GI

tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/ esophageal control if lavage is done. Chemical eye burns may require extended irrigation. Obtain prompt consultation from an ophthalmologist. If burn is present, treat as any thermal burn, after

recommended protective clothing (chemical resistant gloves, splash protection).

decontamination. First Aid responders should pay attention to self-protection and use the

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: CO, CO2, nitrous oxide and smoke.

Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: Isolate and restrict area access. Product reacts with water. Reaction may

Cartridge Cleaner Page 2

Produce heat and/or gases. This reaction may be violent. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Contact with some metals (particularly magnesium, aluminum and

galvanized zinc) can rapidly generate hydrogen.

Fire Fighting Protective Equipment: Wear full protective clothing and a full face piece self-contained breathing

apparatus in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent entry into soil, ditches, sewers, waterways and/or groundwater. Isolate

hazard area and restrict access. Dike area to contain spill. Dilute spill with large amounts of water and neutralize with dilute acid. Vacuum or sweep up neutralized

material for proper disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid contact with skin, eyes and clothing. Do not ingest. Avoid inhalation of mists.

Wear gloves and safety glasses and face shield when handling. Handle and open containers with care. Empty containers may contain hazardous product residues.

Keep containers closed when not in use. Protect against physical damage.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry well ventilated area.

Storage Requirements: Keep away from heat and ignition sources. Place away from incompatible

materials.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation to keep exposures within applicable limits.

PERSONAL PROTECTIVE EQUIPMENT

Skin Specify): PVC, neoprene or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles, and face shield if eye contact is likely.

Respiratory (Specify): None in normal conditions. In non-ventilated areas wear a positive pressure supplied

air respirator. In misty atmospheres, use an organic vapour respirator in combination

Cartridge Cleaner Page 3

with a dust/mist filter.

Other (Specify): Eye wash and shower stations are close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Yellow-green liquid with characteristic odour.

Odour Threshold (ppm): Not available

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)

Not available

Specific Gravity: 1.110

Viscosity: Not available
Vapour Pressure (mm): Not available
Vapour Density (Air-1): Not available
Flashpoint (°C) Not applicable
Evaporation Rate Not available

Boiling Point (°C): 100°C

Freezing Point (°C): Not available

Solubility In Water (20°C): Soluble % Volatile (By Weight) 81%

PH: 11.5 – 12.5 (1% solution)

Coefficient Of Water/Oil Distribution: Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No
If So, Which Ones: Oxidizing compounds

Conditions to Avoid: None known
Hazardous Decomposition Products: CO and CO2

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Mists are corrosive – causes burns to the respiratory tract.

Skin Contact: Corrosive – causes burns.

Eye Contact: Corrosive – causes burns.

Ingestion: This product may be harmful or fatal if swallowed.

CHRONIC HEALTH EFFECTS: None known

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): Tetrasodium Ethylene Diamine Tetraacetate (5%): 200 g/kg, Oral

(Rat)

Sodium Hydroxide (7%): 7142.9 mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Sodium Hydroxide: 2 mg/m3 Ceiling Exposure Value, ACGIH and OSHA.

Irritancy of Material: Severe skin, eye and respiratory tract irritant.

Sensitization of Material: None known **Synergistic Materials:** None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: Tetrasodium ethylene diamine tetraacetate

has been reported to cause birth defects in animals at very high doses not expected in occupational exposure. These effects were observed at doses that were toxic to the

mother.

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life.

FISH

Sodium Hydroxide (7%) LC50 (Rainbow Trout): 2052 mg/l

LC50 (Chinook Salmon): 271 mg/l

Tetrasodium Ethylene Diamine Tetraacetate (5%) LC50 (Lepomis Macrochirus) 96 h, static: 820 mg/l

LC50 (Pimephales Promelas) 96 h, static: 1196 mg/l

FRESHWATER ALGAE

Tetrasodium Ethylene Diamine Tetraacetate (5%) EC50 (Desmodesmus Subspicatus) 72 h: 20.2 mg/l

Environmental Fate

Biodegradability: Not available

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Deactivating Chemicals: Neutralize with dilute acetic acid to pH 6 to 9.

Waste Disposal: Dispose absorbed neutralized material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush with copious amounts of water and neutralize with dilute acetic acid.

Disposal of Packaging: Dispose of packaging in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Sodium Hydroxide Solution

Class: 8
Packing group: II
UN: 1824

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Sodium Hydroxide Solution

Class: 8
Packing group: ||
UN: 1824

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: E

Canadian DSL Inventory: All components of this product are either on the Domestic Substances List (DSL), the Non-

Domestic Substances List (NDSL) or exempt.

CPR Compliance: This product has been classified in accordance with the hazard criteria of the Canadian Controlled

Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

USA

TSCA Inventory: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

California Proposition 65: Not Listed

MA, New Jersey and Pennsylvania Right to Know Lists: Listed

CERCLA/SARA - Section 302: Tetrasodium Ethylene Diamine Tetraacetate: Not Listed

Sodium Hydroxide: Not Listed

SARA (311, 312) Hazard Class: Tetrasodium Ethylene Diamine Tetraacetate: Not Listed

Sodium Hydroxide: Listed

CERCLA/SARA - Section 313: Tetrasodium Ethylene Diamine Tetraacetate: Not Listed

Sodium Hydroxide: Not Listed

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: June 9, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

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SECTION 1 MATERIAL NAME / IDENTIFIER

Chlorine Tabs 200gm WHMIS: C, D1B, D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Trichloro-s-triazinetrione

Chemical Family: Chloroisocyanurates

Chemical Formula: C3 Cl3 N3 O3

Trade Name & Synonyms: Trichloroisocyanuric Acid, TCCA, Trichlor

Molecular Weight: 232.41

Material Use: Pool or Spa water chlorination

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Oxidizing solid, Category 2

Acute toxicity, Oral, Category 4

Skin corrosion/irritation, Category 1C Acute toxicity, Inhalation, Category 2

Specific target organ toxicity, Single exposure, Respiratory tract irritation, Category 3

Hazardous to aquatic environment, long-term hazard, Category 1

Symbol(s)



Signal Word Danger

Hazard statements H272 May intensify fire; oxidizer.

H302 Harmful is swallowed.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long-lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing and combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/ face protection.

P284 In case of inadequate ventilation wear respiratory protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P320 Specific treatment is urgent (see first aid on this label).

P363 Wash contaminated clothing before use.

P370+P378 In case of fire: Use water spray for extinction.

P391 Collect spillage.

P403+P233 Store in a well-ventilated area. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

NFPA: 3 Health, 0 Fire, 2 Reactivity Special Hazard Warning: OXIDIZER

HMIS: 3 Health, 0 Fire, 2 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Trichloro-s-triazinetrione 87-90-1 99.0

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If person is not breathing, give artificial respiration, by mouth to mouth

if possible. Contact a physician

Skin Contact: Take off contaminated clothing. Wash skin thoroughly with soap and water for 15 minutes. Seek

medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Seek medical attention.

Ingestion: Drink 2 or 3 glasses of water, rinse mouth. Do not give anything to an unconscious person. Do not

induce vomiting, unless directed to do so by a doctor. Contact a physician immediately.

Note to physicians Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive. Treat

symptomatically and supportively.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Small quantities of water will react with this material which will form nitrogen

trichloride, which is violently explosive.

Unusual Fire or Explosion Hazards: When heated to decomposition, may release poisonous and corrosive fumes of

nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide and

carbon dioxide.

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Water only. Large amounts of water may be needed and the flow of water should

not be stopped until the fire/reaction has stopped.

Instructions to the Fire Fighters: Cool containers with water spray. On small fires, use water spray or fog. On large

fires, use heavy deluge or fog streams. Flooding amounts of water may be

required before extinguishment can be accomplished.

Fire Fighting Protective Equipment: Fire fighters should wear full protective clothing and self-contained breathing

apparatus (SCBA) in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent spillage from contaminating soil or entering waterways, sewers, drains and

confined areas. If material is spilled, clean up as soon as possible to prevent contamination with a material with which it will react. Keep spilled material dry.

Sweep up and place material in a dry, clean and labeled container.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid skin, eye and clothing contact. Wash hands thoroughly with soap and water

after handling.

Ventilation Requirements: Local exhaust ventilation.

STORAGE

Ventilation Requirements: Store in a cool, dry and well ventilated area away from incompatible materials.

Storage Requirements: Do not store material at temperatures above 60°C/140°F. Available chlorine loss can

be as little as 0.1% per year at ambient temperatures. Do not allow water to get into

container. Keep containers tightly closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Nitrile or neoprene gloves if skin contact is likely.

Eye (Specify): Safety goggles/glasses or face shield if eye contact is likely.

Respiratory (Specify): Use NIOSH/MSHA approved dust or vapour mask when airborne exposure limits are

exceeded. An approved respirator with an acid gas (for chlorine) and dust prefilter

may be adequate.

Other (Specify): Body covering clothes and boots. Safety shower and eye wash stations are close to

work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: White opaque tablets, chlorine odour

Odour Threshold (ppm): Not available

Flammability: Yes No \underline{X}

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C) 225°C

Specific Gravity: Not applicable Viscosity: Not applicable Vapour Pressure (mm): Not applicable Vapour Density (Air-1): Not applicable Flashpoint (°C) Not applicable **Evaporation Rate** Not applicable **Boiling Point (°C):** Not applicable Freezing Point (°C): Not applicable

Solubility In Water (20°C): Soluble

% Volatile (By Weight) Not applicable

PH: 2.7 – 3.3 (1% solution)

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes No X

If No, Under Which Conditions?: Stable when dry. Reacts non-violently with water to form a bleach

solution.

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Avoid contact with water on concentrated forms of this material. Avoid

contact with easily oxidizable organic materials – ammonia, urea or

similar nitrogen containing compounds, inorganic reducing compounds, calcium hypochlorite and alkalis. Also other

isocyanurates.

Conditions to Avoid: Contamination can cause spontaneous combustion at room temp.

Hazardous Decomposition Products: Chlorine gas and traces of phosgene can be liberated at temperatures

greater than 225°C.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Irritation or burns to mucous membranes and respiratory tract.

Skin Contact: Irritation and may cause burns.

Eye Contact: Irritation and may cause burns.

Ingestion: Irritation or burns to the gastrointestinal tract.

CHRONIC HEALTH EFFECTS: Prolonged exposure may cause damage to the respiratory system. Chronic inhalation

exposure may cause impairment of lung function and permanent lung damage.

Other Health Effects: Asthma, respiratory and cardiovascular diseases.

LD 50 of Material (Specify Species and Routes): 406 mg/kg, Oral (Rat), >2000 mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Routes): 0.09-0.29 mg/l, Inhalation (Rat)

Exposure (Limits): Chlorine – TWA: 0.5 ppm, STEL: 1 ppm

Irritancy of Material Strong irritant to skin, eye, nose and throat.

Sensitization of Material None

Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic toxicity:

96 h LC50, Fish 0.13-0.5 mg/l (Lepomis macrochirus)

48 h LC50, Daphnia magna 0.21 mg/l

Environmental Fate

Biodegradability: Material is subject to hydrolysis. Acids produced by hydrolysis are biodegradable.

Bioaccumulative Potential: Not expected to bioaccumulate in the aquatic environment.

Mobility In Soil: Expected to be highly mobile in soil.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance to all applicable federal, provincial and local laws and

regulations.

Safe Handling of Residues: See above

Disposal of Packaging: See above

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group:

UN: 2468

1 kg and under are LIMITED QUANTITY

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group: II UN: 2468

Emergency Guide No. 140

IMDG

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group: II UN: 2468

EmS No: F-A, S-Q

IATA/ICAO

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group:

UN: 2468 ERG No: 5L

For shipments by vessel or bulk quantities (>882 pounds) by motor vehicle or aircraft, add "Marine Pollutant (Trichloroisocyanuric Acid)" to shipping description and label containers with Marine Pollutant markings.

SECTION 15 REGULATORY INFORMATION

CANADA Listed in DSL WHMIS: C, D1B, and D2B

USA Reported in the EPA TSCA Inventory.

EPA Registration No. 83936-3

Emergency overview in accordance to EPA Master Label:

Danger. Hazards to humans and domestic animals. Highly corrosive. Causes irreversible damage or skin burns. May be fatal if inhaled, or absorbed through skin. Strong oxidizing agent. This

pesticide is toxic to fish and aquatic organisms.

SARA (311,312) This product is categorized as an immediate health hazard, and fire and reactivity physical

hazard.

Massachusetts, New Jersey and Pennsylvania Right to Know Lists: Listed

INTERNATIONAL

Australia, China, and Korea: Listed on their chemical inventory lists.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 10, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Clarifier WHMIS: E

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable

Chemical Family: Polynuclear Inorganic Salt

Chemical Formula: Not applicable

Trade Name & Synonyms: Poly Aluminum Hydroxychlorosulphate

Molecular Weight: Not applicable

Material Use: Flocculant

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Corrosive to metals, Category 1

Serious eye damage/eye irritation, Category 1

Symbol(s)



Signal Word Danger

Hazard statements H290 May be corrosive to metals.

H318 Causes serious eye damage.

Precautionary statements P234 Keep only in original packaging.

 ${\tt P280\ Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection.}$

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

 ${\sf P310\ Immediately\ call\ a\ POISON\ CENTER\ or\ doctor.}$

P390 Absorb spillage to prevent material-damage.

P406 Store in a corrosion resistant container with a resistant inner liner.

HMIS: 2 Health, 0 Flammability, 1 Reactivity

NFPA: 2 Health, 0 Fire, 1 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Aluminum chloride hydroxide sulphate 39290-78-3 33 – 40

SECTION 4 FIRST AID MEASURES

Inhalation: No expected damage due to low volatility. Remove person to fresh air if mists are irritating.

Skin Contact: Wash hands thoroughly with soap and water.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Seek medical attention.

Ingestion: Drink 2 or 3 glasses of water to dilute. Do not induce vomiting. Contact a physician immediately.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Hydrogen chloride gas, aluminum oxides, and oxides of sulphur.

Unusual Fire or Explosion Hazards: None
Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: Keep containers cool by spraying with water if exposed to fire.Fire Fighting Protective Equipment: Wear self-contained breathing apparatus and protective clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Avoid runoff into storm sewers and ditches which lead to waterways. Restrict

access until clean-up operations are complete. Soak spill with absorbent material and transfer to plastic drums. Spill may be neutralized with soda ash to a pH

between 6 and 9.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid contact with eyes, skin and clothing. Avoid contact with aluminum

and zinc. Wash hands thoroughly after use.

Ventilation Requirements: Local exhaust ventilation.

STORAGE

Ventilation Requirements: Store in a cool, dry area. Avoid temperatures above 40°C

Storage Requirements: Material may be stored in tightly closed shipping containers. Containers of this

material may be hazardous when empty, since they retain product residues

(vapours, liquids); observe all warnings and precautions listed for the product. Do

not use metal containers. Store in dry rubber lined, plastic, or FRP vessels.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Neoprene or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): If mists are encountered, use NIOSH-approved respirator.

Other (Specify): Impermeable clothing and footwear if contact is likely.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear blue, odourless

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C) Not available
Specific Gravity: 1.18 – 1.38
Viscosity: Not available

Vapour Pressure (mm): 17 mm/hg

Vapour Density (Air-1): 1.3

Flashpoint (°C) Not applicable
Evaporation Rate Not applicable

Boiling Point (°C): 100°C

Freezing Point (°C): -12°C

Solubility In Water (20°C): Soluble

% Volatile (By Weight) 80% (water)

PH: 2.1 – 3.1

Coefficient Of Water/Oil Distribution: Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Strong oxidizers, strong reducing agents. Reacts with aluminum or

zinc to form hydrogen gas.

Conditions to Avoid:Mineral acids, excessive heat and bases/alkalis.

Hazardous Decomposition Products: Hydrogen chloride gas, aluminum oxides, and oxides of sulphur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: None expected on short-term use.

Skin Contact: Irritant

Eye Contact: Irritant, and may cause burns.

Ingestion: Small quantities – nausea, vomiting, and stomach cramps.

Large quantities – ulcerations and necrosis of the mucous membranes in the throat,

mouth and esophagus in addition to small quantity effects, liver or

kidney damage and intense thirst.

CHRONIC HEALTH EFFECTS: Prolonged skin contact may cause dermatitis. Mists may irritate respiratory tract if

exposure is prolonged.

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): Not available LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Not established

Irritancy of Material Skin and eye irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Fish Test Results:

LC50 96 h Fathead minnow (Pimephales promelas): 1074 mg/l LC50 96 h Rainbow trout (Oncorhyncus mykiss): 1768 mg/l

Invertebrate Test Results:

LC50 48 h Water flea (Daphnia magna): 1698 mg/l LC50 48 h Water flea (Ceriodaphnia dubia): 1106 mg/l

Environmental Fate

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative Potential: The product is not expected to bioaccumulate.

Mobility In Soil: Completely soluble.

SECTION 13

DISPOSAL CONSIDERATIONS

Deactivating Chemicals: Neutralize with soda ash to a pH between 6 and 9.

Waste Disposal: Dispose absorbed material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush with copious amounts of water to reuse containers if possible.

Disposal of Packaging: Reuse container if possible. Otherwise, dispose containers in accordance with federal,

provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride hydroxide sulfate)

Class: 8
Packing group: III
UN number: 3264

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride hydroxide sulfate)

Class: 8
Packing group: III

UN number: 3264

ICAO/IATA

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride hydroxide sulfate)

Class: 8
Packing group: III

UN number: 3264

IMDG

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride hydroxide sulfate)

Class: 8
Packing group: III
UN number: 3264

SECTION 15 REGULATORY INFORMATION

CANADA All components of this product are included on the Domestic Substances List (DSL) or are

not required to be listed on the DSL.

WHMIS:

USA All components of this product are included on the TSCA Chemical Inventory or are not

required to be listed on the TSCA Chemical Inventory.

INTERNATIONAL

European Union (EU) All components of this product are included on the European Inventory of Existing Chemical

Substances (EINECS) or are not required to be listed on EINECS.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: January 1, 1996
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

Safety Data Sheet

Product Identifier

Manufacturer's Name: CAPO INDUSTRIES LTD. Street Address: 1200 Corporate Drive

City: Burlington, Ontario, CANADA

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)(Transport)

SECTION 1. IDENTIFICATION

Product Identifier Defoamer

Other Means of Identification Foam Free

Recommended Use Spa Treatment

Restrictions on Use Not available

Initial Supplier Identifier Capo Industries Ltd.

Emergency Telephone Number (905) 332-6626 (non-Transport)

SECTION 2. HAZARD IDENTIFICATION

GHS Classification None

Label Elements None

Signal Word None

Hazard Statement(s): None

Precautionary Statement(s): None

Other Hazards None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms	Other identifiers			
No Regulated Components							

SECTION 4. FIRST-AID MEASURES

Inhalation Remove person to fresh air if breathing is difficult. Get medical help.

Skin Contact Wash thoroughly with soap and water for 15 minutes. Get medical help if irritation persists.

Eye Contact Flush eyes with plenty of water for 15 minutes. Get medical help if irritation persists.

Ingestion Rinse mouth with water. Do not give victim anything to drink if they are unconscious. Give several

small portions of water to drink. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed May cause skin and/or eye irritation.

Immediate Medical Attention and Special Treatment Not available

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Water fog, CO₂, foam or dry chemical.

Unsuitable Extinguishing Media Not available

Specific Hazards Arising from the Product None known

Special Protective Equipment and Precautions for Fire-Fighters

Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Wear appropriate personal protective equipment. Block any potential routes to water systems.

Methods for Containment and Cleaning Up

Soak up with absorbent material and place in a labeled container for disposal. Large spills may require a vacuum. Wash spill area with water.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid skin and eye contact. Wash hands thoroughly after handling.

Conditions for Safe Storage

Store in a cool, dry well ventilated area. Protect from freezing. Keep containers tightly closed. Store away from incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters No occupational exposure limits noted for ingredients.

Appropriate Engineering Controls None required.

Individual Protection Measures

Eye/Face Protection Safety glasses/goggles if eye contact is likely.

Skin Protection Gloves if skin contact is likely.

Respiratory Protection Not required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Opaque, white liquid

Odour Mild odour

Odour Threshold Not available

pH 8.0 – 10.5

Melting Point and Freezing Point 0°C

Initial Boiling Point and Boiling Range Not available

Flash Point Not available

Evaporation Rate Not available

Flammability Not flammable

Upper and Lower Flammability or Explosive Limit Not determined

Vapour Pressure Not available

Vapour Density (air = 1) Not available

Relative Density (water = 1) 0.995 - 1.005

Solubility in Water Dispersible

Solubility in Other Liquids Not available

Partition Coefficient, n-Octanol / Water (Log Kow) Not available

Auto-ignition Temperature Not applicable

Decomposition Temperature Not available

Viscosity Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity None

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions None known

Conditions to Avoid Avoid excessive heat for prolonged periods of time.

Incompatible Materials Oxidizing compounds

Hazardous Decomposition Products CO, CO₂, SiO₂ and formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

__ Inhalation _X _ Skin contact _X _ Eye contact ___ Ingestion

Acute Toxicity

LC₅₀ (Inhalation, 4hr)

ATE mix: Not available

LD₅₀ (Oral)

ATE mix: > 5000 mg/kg, Oral (Rat)

LD₅₀ (Dermal)

ATE mix: > 5000 mg/kg, Dermal (Rat)

Ingestion No data available

Inhalation No data available

Skin Corrosion / Irritation May cause skin irritation.

Serious Eye Damage / Irritation May cause eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure No data available.

Aspiration Hazard No data available.

STOT (Specific Target Organ Toxicity) - Repeated Exposure No data available.

Respiratory and/or Skin Sensitization No data available

Carcinogenicity

This product or one of its components present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

Reproductive Toxicity

Development of Offspring None known

Sexual Function and Fertility None known

Effects on or via Lactation None known

Germ Cell Mutagenicity None known

Interactive Effects None known

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Not available

Persistence and Degradability Not available

Bioaccumulative Potential Not available

Mobility in Soil Not available

Other Adverse Effects Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose absorbed material in accordance with federal, provincial, and local regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
No Regulated Components	None	None	None	None	None

Special Precautions None

Environmental Hazards None

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

DSL/NDSL

All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

USA

TSCA

All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory list or exempt.

SECTION 16. OTHER INFORMATION

Prepared By (Group, Department): Quality Assurance Telephone: (905) 332-6626

Preparation Date: March 13, 2017

Date of Latest Revision: March 7, 2022

Additional Notes or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

ENERGIZE WHMIS: D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable
Chemical Family: Not applicable

Chemical Formula: Mixture

Trade Name & Synonyms: Not applicable Molecular Weight: Not applicable

Material Use: Spa water treatment chemical

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H315 Skin corrosion/irritation, Category 2

H319 Serious eye damage/eye irritation, Category 2A

H335 Specific target organ toxicity, Single exposure, Respiratory tract irritation

Label Elements

Symbol(s)



Signal Word Warning

Hazard statements Causes skin and serious eye irritation.

Precautionary statements Avoid skin and eye contact. Wear gloves and safety glasses when handling.

Wash hands thoroughly after use. If contact with eyes, flush with copious amounts of water for 15 minutes. Avoid breathing in dusts/fumes/vapours. If

inhaled, remove person to fresh air and seek medical attention.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Pentapotassium Bis(Peroxymonosulphate)

Bis(Sulphate) 70693-62-8 60-100

Dipotassium Peroxodisulphate 7727-21-1 0-5

Sodium Carbonate 497-19-8 10 – 30

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If difficulty breathing, give artificial respiration and seek medical

attention.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush eyes with copious amounts of water and seek medical attention.

Ingestion: Drink 2 or 3 glasses of water or milk to dilute material. Do not induce vomiting. Contact a physician.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: At elevated temperatures of 100°C may liberate oxides of sulphur and carbon.

Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable for extinguishing surrounding fire.

Instructions to the Fire Fighters: See below

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent material from entering drains, sewers, and waterways. Sweep up and place

metal waste containers for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid contact with skin and eyes. Avoid breathing in dust. Wear gloves and safety glasses

when handling. Wash hands thoroughly after use.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Do not mix directly with other chemicals. Keep containers tightly closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: General exhaust ventilation to keep airborne contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): Wear air-purifying respirator with dust/mist cartridge if in a non-ventilated area.

Other (Specify): Impervious clothing if contact is likely. Eye wash and shower stations are close to work

area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Opaque, white granular, odourless

Odour Threshold (ppm): Not applicable

Flammability: Yes No \underline{X}

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C) Not available
Specific Gravity: Not available
Viscosity: Not applicable
Vapour Pressure (mm): Not applicable
Vapour Density (Air-1): Not applicable

Flashpoint (°C)

Evaporation Rate

Boiling Point (°C):

Not applicable

Not available

Not available

Solubility In Water (20°C): Soluble

% Volatile (By Weight) Not applicable

PH: 6.5 – 7.5 (1% solution)

Coefficient Of Water/Oil Distribution: Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Heavy metal salts, halogenated compounds, cyanides, aluminum, and sulfamic

acid.

Conditions to Avoid: Avoid extreme heat.

Hazardous Decomposition Products: Oxides of sulphur and carbon.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation:Dust may cause irritation to respiratory tract.Skin Contact:Prolonged skin contact will cause irritation.Eye Contact:Eye contact will cause irritation or burns.

Ingestion: Severe gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH EFFECTS: None known
Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): Pentopotassium Bis(Peroxymonosulphate)Bis(Sulphate) 500 mg/kg,

Oral (Rat), >2000 mg/kg, Dermal (Rabbit)

Dipotassium Peroxodisulphate 802 mg/kg, Oral (Rat), >10000 mg/kg,

Dermal (Rabbit)

Sodium Carbonate 4090 mg/kg, Oral (Rat), 2210 mg/kg, Dermal

(Mouse).

LC 50 of Material (Specify Species and Routes): Pentopotassium Bis(Peroxymonosulphate)Bis(Sulphate) >5 mg/l,

Inhalation 4 h (Rat)

Exposure (Limits): Pentopotassium Bis(Peroxymonosulphate)Bis(Sulphate), AEL* (Dupont): 1mg/m3, 15 minute

TWA, Dipotassium Peroxodisulphate, TLV (ACGIH): 0.1 mg/m3, TWA as persulphate.

Irritancy of Material Eye, skin and respiratory tract irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Pentopotassium Bis(Peroxymonosulphate)Bis(Sulphate) – 96 h LC50 Cyprinodon Variegatus (sheepshead minnow):

1.09 mg/l

- 72 h ERC50 Algae: 1mg/l

- 48 h EC50 Daphnia: 3.5 mg/l

Dipotassium Peroxodisulphate – 48 h LC50 Daphnia Magna (water flea): 92 mg/l

Environmental Fate

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush residues with lots of water.

Disposal of Packaging: Dispose of containers in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated

Class: Not applicable

Packing group: Not applicable
UN: Not applicable

SECTION 15 REGULATORY INFORMATION

CANADA

WHMIS: D2B

CPR Compliance This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR

USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 28, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

Safety Data Sheet

Product Identifier

Manufacturer's Name: CAPO INDUSTRIES LTD. Street Address: 1200 Corporate Drive

City: Burlington, Ontario, CANADA

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Transport)

SECTION 1. IDENTIFICATION

Product Identifier Filter Cleaner

Other Means of Identification 701709

Recommended Use Filter Rinse

Restrictions on Use Not available

Initial Supplier Identifier Capo Industries Itd.

Emergency Telephone Number 1-905-332-6626 (Non-Transport)

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Serious eye damage/Eye Irritation Category 1

Skin Irritation Category 2

Symbol(s)



Signal Word Danger

Hazard statement(s) H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

Preventive: P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see first aid on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

Other Hazards No additional information available.

Sulphamic Acid

SECTION 3	COMPOSITION, INFORMATION ON INGREDIENTS				
Ingredient	CAS#	% Concentration			
Sodium Bisulphate	7681-38-1	45 – 70			

5329-14-6

SECTION 4 FIRST AID MEASURES

General Advice: Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled If unconscious, place in recovery position and seek medical advice.

If Symptoms persist, call a physician.

Move to fresh air.

If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In Case of Skin Contact: If skin irritation persists, call a physician.

Wash off immediately with plenty of water, also under the eyelids for at least 15 minutes.

30 - 60

Remove contaminated clothing and shoes.

In Case of Eye Contact Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If Swallowed Keep respiratory tract, clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician or POISON CONTROL CENTRE.

SECTION 5 FIRE – FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable Extinguishing Media: High volume water jet.

Specific Hazards During Firefighting: Do not allow run-off from firefighting to enter drains or water courses.

Hazardous Combustion Products: No hazardous combustion products are known.

Further Information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with

local regulations.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Use personal protective equipment – PPE.

Environmental Precautions: Prevent product entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform the respective authorities.

Methods for Containment and Cleaning Up: Neutralize with chalk, alkali solution or ammonia.

Keep in suitable, closed containers for disposal.

Special Protective equipment for firefighters: Wear self-contained breathing apparatus for firefighters if necessary.

SECTION 7

HANDLING AND STORAGE

Advice on Safe Handling:

Avoid formation of respirable particles.

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking eating and drinking should be prohibited in the application area.'

Dispose of rinse water in accordance with local and national regulations.

Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Do not restore near acids.

Electrical installations / working material must comply with the technological safety standards

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or

exposure assessment demonstrates that exposures are within recommended exposure

guidelines.

Hand Protection: Remarks: The suitability for a specific workplace should be discussed with the producers of

the protective gloves.

Eye Protection: Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and Body Protection: Impervious clothing

Choose body protection according to the amount and concentration of the

dangerous substance at the workplace.

Hygiene measures: When using do not eat or drink or smoke.

Wash Hands before breaks and at the end of workday.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Purple beads, acidic odour

Odour Threshold (ppm): No data available Flammability: No data available

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): No data available Upper Explosion Limit (% By Volume): No data available

Lower Explosion Limit (% By Volume): No data available

Decomposition Temp (°C)

No data available

Vapour Pressure (mm):

No data available

No data available

No data available

No data available

Evaporation Rate

No data available

Boiling Point (°C):

No data available

No data available

Solubility In Water (20°C): Soluble

% Volatile (By Weight)
 PH:
 1.7 (1% solution)
 Coefficient Of Water/Oil Distribution: No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity No decomposition if stored and applied as directed.

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions: No decomposition if stored and applied as directed.

Conditions to Avoid High flames and sparks.

Incompatible Materials Reducing agents, strong bases, and strong oxidizing materials.

SECTION 11

TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

X Inhalation X Skin contact X Eye contact X Ingestion

Acute Toxicity

Product: No data available

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye damage

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: No data available

Component: <u>7681-38-1</u>

Acute inhalation toxicity: Oral (LD50, Rat) = 2140mg/kg

Inhalation (LD50, Rat) = > 2.4 mg/L 4 hr (Dust)

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity This product readily dissolves in water to form a weak acid solution. A 0.05% or greater (by weight) solution

of this product will likely be acutely harmful to aquatic life.

Environmental Fate

Biodegradability: No data available

Biaccumulative Potential: No data available

Mobility In Soil: No data available

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues: Dispose of in accordance with federal, provincial, local, state and federal regulations.

Contaminated packaging: Empty remaining contents

Dispose of unused products. Do not re-use empty containers.

SECTION 14 TRANSPORTATION INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
TDG	UN1759	Corrosive Solid, N.O.S.	Sulphamic Acid	8	III
US DOT	UN1759	Corrosive Solid, N.O.S.	Sulphamic Acid	8	III
IATA	UN1759	Corrosive Solid, N.O.S.	Sulphamic Acid	8	III
IMDG	UN1759	Corrosive Solid, N.O.S.	Sulphamic Acid	8	III

Special Precautions Limited Quantity is 5kg and under.

SECTION 15 REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous products regulations (HPR) and the SDS contains all the information required by the HPR.

The components of this product are reported in the following inventories:

TSCA: On TSCA Inventory

DSL: All components of this product are on the Canada DSL AICS: On the inventory, or in compliance with the inventory

NZIoC: Not in compliance with the inventory ENCS: Not in compliance with the inventory

KECI: On the inventory, or in compliance with the inventoryPICCS: On the inventory, or in compliance with the inventoryIECSC: On the inventory, or in compliance with the inventory

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Assurance Telephone: (905) 332-6626

Preparation Date: May 25, 2015 Date Revised: June 10, 2024

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Metal Guard WHMIS: D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name:

Chemical Family:

Not applicable

Chelating agent

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H316 Skin corrosion/irritation, Category 3

H319 Serious eye damage/ eye irritation, Category 2A

H335 Specific target organ toxicity, Single exposure, Respiratory tract irritation,

Category 3

Symbol(s)



Signal Word Warning

Hazard statements Causes mild skin irritation and serious eye irritation. May cause respiratory tract

irritation.

Precautionary statements Avoid skin and eye contact. Wear gloves and safety glasses when handling. Wash

hands thoroughly after use. If eye contact, flush eyes with copious amounts of water for 15 minutes. Avoid breathing in mists/fumes/vapours. If inhaled, remove

person to fresh air and seek medical attention.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Sodium Salt of 1 Hydroxyethylidene-1.1-Diphosphonic Acid 29329-71-3

3 - 7

SECTION 4 FIRST AID MEASURES

Inhalation: If mists are inhaled, remove to fresh air and seek medical attention

Skin Contact: Wash hands thoroughly with soap and water for 15 minutes.

Eye Contact: Flush eyes with copious amounts of water for 15 minutes. Seek medical attention if irritation

persists.

Ingestion: Do not induce vomiting. Drink 2 or 3 glasses of water to dilute material. Contact a physician

immediately.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Oxides of carbon and phosphorus.

Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: Containers exposed to intense heat from fires should be cooled with water to

prevent vapour pressure buildup which could result in container rupture. Do not

allow runoff to enter waterways.

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent entry into sewers, drains, or waterways. Dike if needed. Soak up spill

with synthetic or natural absorbent and sweep into a clean, dry and labelled

container for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid skin and eye contact. Wear gloves and safety glasses when handling. Wash hands

thoroughly after use. Do not ingest. Avoid inhalation of chemical.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Keep away from acids, peroxides, metals, and easily ignitable materials. Keep containers

closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation to keep airborne contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): None under normal conditions. Wear a NIOSH approved respirator if there isn't adequate

ventilation.

Other (Specify): Eye wash and shower stations close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear blue liquid, mild odour

Odour Threshold (ppm): Not applicable

Flammability: Yes No \underline{X}

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable Upper Explosion Limit (% By Volume): Not applicable Lower Explosion Limit (% By Volume): Not applicable **Decomposition Temp (°C)** Not applicable **Specific Gravity:** 1.310 - 1.340Viscosity: Not available Vapour Pressure (mm): Not applicable Vapour Density (Air-1): Not applicable Flashpoint (°C) Not applicable

Evaporation Rate Not applicable

Boiling Point (°C): 100°C

Freezing Point (°C): 0°C

Solubility In Water (20°C): Soluble

% Volatile (By Weight) 56%

PH: 4 - 6

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes \underline{X} No

If So, Which Ones: Cyanides

Conditions to Avoid: High temperatures.

Hazardous Decomposition Products: CO, CO2, and oxides of phosphorus.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Severe irritation to respiratory tract if mists are inhaled.

Skin Contact: Product may irritate skin.

Eye Contact: Strong eye irritant and may cause burns.

Ingestion: Gastritis - stomach upset, nausea, and diarrhea.

CHRONIC HEALTH EFFECTS: None known
Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): 2850 mg/kg, Oral (Rat), >5000 mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Not established

Irritancy of Material Skin, eye and respiratory tract irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity Not available

Environmental Fate

Biodegradability: Not available

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed materials in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Clean up residual with absorbent material. Place in appropriate container and flush with

water.

Disposal of Packaging: Dispose containers in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: D2B

CPR Compliance This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR

USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 28, 2015
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Mini Tabs WHMIS: C, D1B, D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Trichloro-s-triazinetrione

Chemical Family: Chloroisocyanurates

Chemical Formula: C3 Cl3 N3 O3

Trade Name & Synonyms: Trichloroisocyanuric Acid, TCCA, Trichlor

Molecular Weight: 232.41

Material Use: Pool or Spa water chlorination

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Oxidizing solid, Category 2

Acute toxicity, Oral, Category 4

Skin corrosion/irritation, Category 1C Acute toxicity, Inhalation, Category 2

Specific target organ toxicity, Single exposure, Respiratory tract irritation, Category 3

Hazardous to aquatic environment, long-term hazard, Category 1

Symbol(s)



Signal Word Danger

Hazard statements H272 May intensify fire; oxidizer.

H302 Harmful is swallowed.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long-lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing and combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/ face protection.

P284 In case of inadequate ventilation wear respiratory protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P320 Specific treatment is urgent (see first aid on this label).

P363 Wash contaminated clothing before use.

P370+P378 In case of fire: Use water spray for extinction.

P391 Collect spillage.

P403+P233 Store in a well-ventilated area. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

NFPA: 3 Health, 0 Fire, 2 Reactivity Special Hazard Warning: OXIDIZER

HMIS: 3 Health, 0 Fire, 2 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Trichloro-s-triazinetrione 87-90-1 99.0

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If person is not breathing, give artificial respiration, by mouth to mouth

if possible. Contact a physician

Skin Contact: Take off contaminated clothing. Wash skin thoroughly with soap and water for 15 minutes. Seek

medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Seek medical attention.

Ingestion: Drink 2 or 3 glasses of water, rinse mouth. Do not give anything to an unconscious person. Do not

induce vomiting, unless directed to do so by a doctor. Contact a physician immediately.

Note to physicians Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive. Treat

symptomatically and supportively.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Small quantities of water will react with this material which will form nitrogen

trichloride, which is violently explosive.

Unusual Fire or Explosion Hazards: When heated to decomposition, may release poisonous and corrosive fumes of

nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide and

carbon dioxide.

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Water only. Large amounts of water may be needed and the flow of water should

not be stopped until the fire/reaction has stopped.

Instructions to the Fire Fighters: Cool containers with water spray. On small fires, use water spray or fog. On large

fires, use heavy deluge or fog streams. Flooding amounts of water may be

required before extinguishment can be accomplished.

Fire Fighting Protective Equipment: Fire fighters should wear full protective clothing and self-contained breathing

apparatus (SCBA) in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent spillage from contaminating soil or entering waterways, sewers, drains and

confined areas. If material is spilled, clean up as soon as possible to prevent contamination with a material with which it will react. Keep spilled material dry.

Sweep up and place material in a dry, clean and labeled container.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid skin, eye and clothing contact. Wash hands thoroughly with soap and water

after handling.

Ventilation Requirements: Local exhaust ventilation.

STORAGE

Ventilation Requirements: Store in a cool, dry and well ventilated area away from incompatible materials.

Storage Requirements: Do not store material at temperatures above 60°C/140°F. Available chlorine loss can

be as little as 0.1% per year at ambient temperatures. Do not allow water to get into

container. Keep containers tightly closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Nitrile or neoprene gloves if skin contact is likely.

Eye (Specify): Safety goggles/glasses or face shield if eye contact is likely.

Respiratory (Specify): Use NIOSH/MSHA approved dust or vapour mask when airborne exposure limits are

exceeded. An approved respirator with an acid gas (for chlorine) and dust prefilter

may be adequate.

Other (Specify):Body covering clothes and boots. Safety shower and eye wash stations are close to

work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: White opaque tablets, chlorine odour

Odour Threshold (ppm): Not available

Flammability: Yes No \underline{X}

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C) 225°C

Specific Gravity: Not applicable Viscosity: Not applicable Vapour Pressure (mm): Not applicable Vapour Density (Air-1): Not applicable Flashpoint (°C) Not applicable **Evaporation Rate** Not applicable **Boiling Point (°C):** Not applicable Freezing Point (°C): Not applicable

Solubility In Water (20°C): Soluble

% Volatile (By Weight) Not applicable

PH: 2.7 – 3.3 (1% solution)

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes No \underline{X}

If No, Under Which Conditions?: Stable when dry. Reacts non-violently with water to form a bleach

solution.

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Avoid contact with water on concentrated forms of this material. Avoid

contact with easily oxidizable organic materials – ammonia, urea or

similar nitrogen containing compounds, inorganic reducing compounds, calcium hypochlorite and alkalis. Also other

isocyanurates.

Conditions to Avoid: Contamination can cause spontaneous combustion at room temp.

Hazardous Decomposition Products: Chlorine gas and traces of phosgene can be liberated at temperatures

greater than 225°C.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Irritation or burns to mucous membranes and respiratory tract.

Skin Contact: Irritation and may cause burns.

Eye Contact: Irritation and may cause burns.

Ingestion: Irritation or burns to the gastrointestinal tract.

CHRONIC HEALTH EFFECTS: Prolonged exposure may cause damage to the respiratory system. Chronic inhalation

exposure may cause impairment of lung function and permanent lung damage.

Other Health Effects: Asthma, respiratory and cardiovascular diseases.

LD 50 of Material (Specify Species and Routes): 406 mg/kg, Oral (Rat), >2000 mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Routes): 0.09-0.29 mg/l, Inhalation (Rat)

Exposure (Limits): Chlorine – TWA: 0.5 ppm, STEL: 1 ppm

Irritancy of Material Strong irritant to skin, eye, nose and throat.

Sensitization of Material None

Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic toxicity:

96 h LC50, Fish 0.13-0.5 mg/l (Lepomis macrochirus)

48 h LC50, Daphnia magna 0.21 mg/l

Environmental Fate

Biodegradability: Material is subject to hydrolysis. Acids produced by hydrolysis are biodegradable.

Bioaccumulative Potential: Not expected to bioaccumulate in the aquatic environment.

Mobility In Soil: Expected to be highly mobile in soil.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance to all applicable federal, provincial and local laws and

regulations.

Safe Handling of Residues: See above
Disposal of Packaging: See above

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group:

UN: 2468

1 kg and under are LIMITED QUANTITY

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group: II UN: 2468

Emergency Guide No. 140

IMDG

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group: II UN: 2468

EmS No: F-A, S-Q

IATA/ICAO

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group:

UN: 2468 ERG No: 5L

For shipments by vessel or bulk quantities (>882 pounds) by motor vehicle or aircraft, add "Marine Pollutant (Trichloroisocyanuric Acid)" to shipping description and label containers with Marine Pollutant markings.

SECTION 15 REGULATORY INFORMATION

CANADA Listed in DSL WHMIS: C, D1B, and D2B

USA Reported in the EPA TSCA Inventory.

EPA Registration No. 83936-3

Emergency overview in accordance to EPA Master Label:

Danger. Hazards to humans and domestic animals. Highly corrosive. Causes irreversible damage or skin burns. May be fatal if inhaled, or absorbed through skin. Strong oxidizing agent. This

pesticide is toxic to fish and aquatic organisms.

SARA (311,312) This product is categorized as an immediate health hazard, and fire and reactivity physical

hazard.

Massachusetts, New Jersey and Pennsylvania Right to Know Lists: Listed

INTERNATIONAL

Australia, China, and Korea: Listed on their chemical inventory lists.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 10, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

NON-CHLORINESHOCK WHMIS: E

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Oxone

Chemical Family: Monopersulphate

Chemical Formula: 2KHSO₅ KHSO₄ K₂SO₄

Trade Name & Synonyms: Potassium Monopersulphate

Molecular Weight: Not Applicable

Material Use: Pool Water Treatment Chemical

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Acute toxicity, Oral, Category 4

Skin corrosion/irritation, Category 1B

Serious eye damage/eye irritation, Category 1

Symbol(s)



Signal Word Danger

Hazard statements: H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements: P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration			
Pentapotassium bis(peroxymonosulphate)					
bis(sulphate)	70693-62-8	60 - 100			
Dipotassium peroxodisulphate	7727-21-1	1 - 5			
Tetra(carbonato(2-))dihydroxypentamagnesium	7760-50-1	0.5 – 1.5			

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. Give artificial respiration if required. Seek medical attention.

Skin Contact: Wash thoroughly with soap and water. Flush with water for 15 minutes.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Seek medical attention

Ingestion: Do not induce vomiting. Drink large quantities of water and contact a physician.

Note to physicians: None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Oxygen, Sulphur dioxide, and Sulphur trioxide.

Unusual Fire or Explosion Hazards: None
Sensitivity to Mechanical Impact: None
Rate of Burning: None
Explosive Power: None
Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: Wear self-contained breathing apparatus and protective suit.

Fire Fighting Protective Equipment: See above

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Sweep up and collect in a metal container. Flush residue with water. Large quantities

should be neutralized with soda ash.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly

after handling.

Ventilation Requirements: Use in a well ventilated area.

Other Precautions: Keep away from heat and flame.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Do not mix directly with other chemicals. Do not store with combustible materials.

Never allow product to get in contact with water during storage.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): NIOSH/MSHA air purifying respirator if prolonged use in non-ventilated area is

Unavoidable.

Other (Specify): Impervious clothing is contact is likely. Eye wash stations are close to product use.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: White granular, opaque, odourless

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius):

Upper Explosion Limit (% By Volume):

Not applicable

Lower Explosion Limit (% By Volume):

Not applicable

Decomposition Temp (°C)

Not applicable

Specific Gravity: 1.532

Viscosity: Not applicable Vapour Pressure (mm): Not applicable Vapour Density (Air-1): Not applicable Flashpoint (°C) Not applicable **Evaporation Rate** Not applicable **Boiling Point (°C):** Not applicable Freezing Point (°C): Decomposes Solubility In Water (20°C): 25.6% @ 20°C % Volatile (By Weight) Not applicable

PH: 2.8 – 4.0 (1% solution)

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: This product is an oxidizer. When mixed with halides (chlorine,

bromine) or compounds containing halides, it will release the

respective halogen gas. Examples: Mixture of this product and

salt will emit chlorine gas. Mixture with cyanides can release hydrogen cyanide gas. Heavy metal salts such as cobalt, nickel and copper

cause the evolution of oxygen.

Conditions to Avoid: Avoid extreme heat. Temperature > 50°C (> 122°F)

Hazardous Decomposition Products: Oxygen, Sulphur dioxide and Sulphur trioxide.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: May cause irritation of respiratory tract.

Skin Contact: Severe skin irritation and burns.

Eye Contact: Corrosive, may cause permanent eye injury.

Ingestion: Harmful if swallowed.

CHRONIC HEALTH EFFECTS None known

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes)

Pentapotassium bis(peroxymonosulphate) bis(sulphate): 500 mg/kg, Oral (Rat), > 2000 mg/kg, Dermal (Rat).

Dipotassium peroxodisulphate: 1130 mg/kg, Oral (Rat), > 10000 mg/kg, Dermal (Rabbit)

Tetra(carbonato(2-))dihydroxypentamagnesium: >2000 mg/kg, Oral (Rat).

LC 50 of Material (Specify Species and Routes)

Pentapotassium bis(peroxymonosulphate) bis(sulphate): > 5 mg/l, Inhalation 4h (Rat)

Dipotassium peroxodisulphate: >10.7 mg/l, Inhalation 4h (Rat)

Exposure (Limits): Pentapotassium bis(peroxymonosulphate) bis(sulphate): No data available

Dipotassium peroxodisulphate: TLV (ACGIH) 0.1mg/m3, TWA as persulfate

Irritancy of Material Skin, eye, nose and throat.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity:

AQUATIC TOXICITY

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

Cyprinodon variegatus (sheepshead minnow) 1.09 mg/l: 96 h LC50

Selenastrum capricornutum (green algae) > 1 mg/l: 96 h ErC50

Selenastrum capricornutum (green algae) 0.5 mg/l: 72 h NOEC

Daphnia 3.5 mg/l: 48 h EC50

Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l: 37 d NOEC

Americamysis bahia (mysid shrimp) 0.267 mg/l: 28 d NOEC

Dipotassium peroxodisulphate:

Oncorhynchus mykiss (rainbow trout) 76.3 mg/l: 96 h LC50

Pseudokirchneriella subcapitata (green algae) 83.7 mg/l: 72 h EbC50 Pseudokirchneriella subcapitata (green algae) 39.2 mg/l: 72 h NOEC

Daphnia magna (water flea) 120 mg/l: 48 h EC50

ENVIRONMENTAL FATE

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

Biodegradability: Readily biodegradable.

Bioaccumulation: Not applicable Mobility in Soil: Not applicable

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose material in accordance with federal, provincial and local government

regulations.

Safe Handling of Residues: Flush residue with water.

Disposal of Packaging: Dispose packaging in accordance with federal, provincial and local government

regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)

Class: 8
Packing group: II
UN number: 3260

Limited Quantity is 1kg and under.

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)

Class: 8
Packing group: II

UN number: 3260

IATA_C

Proper shipping name: Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)

Class: 8
Packing group: II

UN number: 3260

IMDG

Proper shipping name: Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)

Class: 8
Packing group: II
UN number: 3260

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: E

USA

TSCA: On the inventory, or in compliance with the inventory.

SARA 313 Regulated Chemicals: Sara 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III,

Section 313.

California Prop. 65: Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known.

NJ Right to Know Regulated Chemical(s): Substances on the New Jersey Workplace Hazardous Substances List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Dipotassium peroxodisulphate.

PA Right to Know Regulated Chemical(s): Substances on the Pennsylvania Hazardous Substances List present at a

Concentration of 1% or more (0.01% for Special Hazardous Substances):

Dipotassium peroxodisulphate.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: November 23, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

OXIDIZER WHMIS: E

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Oxone

Chemical Family: Monopersulphate

Chemical Formula: 2KHSO₅ KHSO₄ K₂SO₄

Trade Name & Synonyms: Potassium Monopersulphate

Molecular Weight: Not Applicable

Material Use: Pool Water Treatment Chemical

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Acute toxicity, Oral, Category 4

Skin corrosion/irritation, Category 1B

Serious eye damage/eye irritation, Category 1

Symbol(s)



Signal Word Danger

Hazard statements: H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements: P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration				
Pentapotassium bis(peroxymonosulphate)						
bis(sulphate)	70693-62-8	60 - 100				
Dipotassium peroxodisulphate	7727-21-1	1 - 5				
Tetra(carbonato(2-))dihydroxypentamagnesium	7760-50-1	0.5 – 1.5				

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. Give artificial respiration if required. Seek medical attention.

Skin Contact: Wash thoroughly with soap and water. Flush with water for 15 minutes.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Seek medical attention

Ingestion: Do not induce vomiting. Drink large quantities of water and contact a physician.

Note to physicians: None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Oxygen, Sulphur dioxide, and Sulphur trioxide.

Unusual Fire or Explosion Hazards: None
Sensitivity to Mechanical Impact: None
Rate of Burning: None
Explosive Power: None
Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: Wear self-contained breathing apparatus and protective suit.

Fire Fighting Protective Equipment: See above

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Sweep up and collect in a metal container. Flush residue with water. Large quantities

should be neutralized with soda ash.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly

after handling.

Ventilation Requirements: Use in a well ventilated area.

Other Precautions: Keep away from heat and flame.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Do not mix directly with other chemicals. Do not store with combustible materials.

Never allow product to get in contact with water during storage.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): NIOSH/MSHA air purifying respirator if prolonged use in non-ventilated area is

Unavoidable.

Other (Specify): Impervious clothing is contact is likely. Eye wash stations are close to product use.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: White granular, opaque, odourless

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius):

Upper Explosion Limit (% By Volume):

Not applicable

Lower Explosion Limit (% By Volume):

Not applicable

Decomposition Temp (°C)

Not applicable

Specific Gravity: 1.532

Viscosity: Not applicable Vapour Pressure (mm): Not applicable Vapour Density (Air-1): Not applicable Flashpoint (°C) Not applicable **Evaporation Rate** Not applicable **Boiling Point (°C):** Not applicable Freezing Point (°C): Decomposes Solubility In Water (20°C): 25.6% @ 20°C % Volatile (By Weight) Not applicable

PH: 2.8 – 4.0 (1% solution)

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: This product is an oxidizer. When mixed with halides (chlorine,

bromine) or compounds containing halides, it will release the

respective halogen gas. Examples: Mixture of this product and

salt will emit chlorine gas. Mixture with cyanides can release hydrogen cyanide gas. Heavy metal salts such as cobalt, nickel and copper

cause the evolution of oxygen.

Conditions to Avoid: Avoid extreme heat. Temperature > 50°C (> 122°F)

Hazardous Decomposition Products: Oxygen, Sulphur dioxide and Sulphur trioxide.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: May cause irritation of respiratory tract.

Skin Contact: Severe skin irritation and burns.

Eye Contact: Corrosive, may cause permanent eye injury.

Ingestion: Harmful if swallowed.

CHRONIC HEALTH EFFECTS None known

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes)

Pentapotassium bis(peroxymonosulphate) bis(sulphate): 500 mg/kg, Oral (Rat), > 2000 mg/kg, Dermal (Rat).

Dipotassium peroxodisulphate: 1130 mg/kg, Oral (Rat), > 10000 mg/kg, Dermal (Rabbit)

Tetra(carbonato(2-))dihydroxypentamagnesium: >2000 mg/kg, Oral (Rat).

LC 50 of Material (Specify Species and Routes)

Pentapotassium bis(peroxymonosulphate) bis(sulphate): > 5 mg/l, Inhalation 4h (Rat)

Dipotassium peroxodisulphate: >10.7 mg/l, Inhalation 4h (Rat)

Exposure (Limits): Pentapotassium bis(peroxymonosulphate) bis(sulphate): No data available

Dipotassium peroxodisulphate: TLV (ACGIH) 0.1mg/m3, TWA as persulfate

Irritancy of Material Skin, eye, nose and throat.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity:

AQUATIC TOXICITY

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

Cyprinodon variegatus (sheepshead minnow) 1.09 mg/l: 96 h LC50

Selenastrum capricornutum (green algae) > 1 mg/l: 96 h ErC50

Selenastrum capricornutum (green algae) 0.5 mg/l: 72 h NOEC

Daphnia 3.5 mg/l: 48 h EC50

Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l: 37 d NOEC

Americamysis bahia (mysid shrimp) 0.267 mg/l: 28 d NOEC

Dipotassium peroxodisulphate:

Oncorhynchus mykiss (rainbow trout) 76.3 mg/l: 96 h LC50

Pseudokirchneriella subcapitata (green algae) 83.7 mg/l: 72 h EbC50 Pseudokirchneriella subcapitata (green algae) 39.2 mg/l: 72 h NOEC

Daphnia magna (water flea) 120 mg/l: 48 h EC50

ENVIRONMENTAL FATE

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

Biodegradability: Readily biodegradable.

Bioaccumulation: Not applicable Mobility in Soil: Not applicable

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose material in accordance with federal, provincial and local government

regulations.

Safe Handling of Residues: Flush residue with water.

Disposal of Packaging: Dispose packaging in accordance with federal, provincial and local government

regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)

Class: 8
Packing group: II
UN number: 3260

Limited Quantity is 1kg and under.

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)

Class: 8
Packing group: II

UN number: 3260

IATA_C

Proper shipping name: Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)

Class: 8
Packing group: II

UN number: 3260

IMDG

Proper shipping name: Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)

Class: 8
Packing group: II
UN number: 3260

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: E

USA

TSCA: On the inventory, or in compliance with the inventory.

SARA 313 Regulated Chemicals: Sara 313: This material does not contain any chemical components with known CAS

numbers that exceed the threshold reporting levels established by SARA Title III,

Section 313.

California Prop. 65: Chemicals known to the State of California to cause cancer, birth defects or any other harm: none

known.

NJ Right to Know Regulated Chemical(s): Substances on the New Jersey Workplace Hazardous Substances List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Dipotassium peroxodisulphate.

PA Right to Know Regulated Chemical(s): Substances on the Pennsylvania Hazardous Substances List present at a

Concentration of 1% or more (0.01% for Special Hazardous Substances):

Dipotassium peroxodisulphate.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: November 23, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

PH Down / PH Reducer WHMIS: E

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Sodium Bisulphate

Chemical Family:Sodium SaltChemical Formula:Na HSO4

Trade Name & Synonyms: Not applicable Molecular Weight: Not applicable

Material Use: Pool water pH reducer

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Serious eye damage/eye irritation, Category 1

Symbol(s)



Signal Word Danger

Hazard statements H318 Causes serious eye damage.

Precautionary statements P280 Wear protective gloves/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Sodium Bisulphate 7681-38-1 60 – 100

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If irritation persists, contact a physician.

Skin Contact: Wash thoroughly with soap and water. If irritation persists, contact a physician. **Eye Contact:** Flush eyes with plenty of water for 15 minutes. Seek prompt medical attention.

Ingestion: Drink 2 or 3 glasses of water followed by milk of magnesia, beaten eggs or vegetable oil. Contact a

physician immediately. Do not induce vomiting. If spontaneous vomiting occurs, keep head below

victims knees to prevent breathing in of vomitus.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: SO2 and SO3 at temperatures above 299°C

Unusual Fire or Explosion Hazards: None
Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use appropriate media suitable to extinguish source of fire.

Instructions to the Fire Fighters: Wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

Fire Fighting Protective Equipment: See above.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Stop leak if without risk. Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Sweep up material and neutralize with an alkaline solution. Place in a designated labeled waste

container.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Put on appropriate protective equipment. Avoid breathing dusts. Wash thoroughly

after handling.

Ventilation Requirements: Use in well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Keep container tightly closed. Material is hygroscopic and will readily absorb

moisture. Do not store dry product where exposed to moist conditions.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Use in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves is skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): Wear appropriate dust mask if prolonged use in non-ventilated area is unavoidable.

Other (Specify): Impervious clothing if contact is likely. Eye wash stations close to chemical use.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Opaque white beads, acidic odour

Odour Threshold (ppm): Not applicable

Flammability: Yes No \underline{X}

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)
Not applicable

Specific Gravity: 1.28

Viscosity: Not applicable
Vapour Pressure (mm): Not applicable

PH Down / PH Reducer

Vapour Density (Air-1):

Flashpoint (°C)

Evaporation Rate

Boiling Point (°C):

Not applicable

Not applicable

Freezing Point (°C): 176.7°C Solubility In Water (20°C): Soluble

% Volatile (By Weight)
 PH:
 1.4 (1% solution)
 Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Strong alkaline, acids, water, sodium hypochlorite solution and

oxidizers

Conditions to Avoid: Do not mix dry or concentrated solutions of this product with

concentrated solutions of chlorine bleach, ammonia cleansers or

similar products.

Hazardous Decomposition Products: If heated above 299°C; SO2 and SO3 will form.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Dust may cause burns to mucous membranes and respiratory tract.

Skin Contact: Mild irritant

Eye Contact: Causes serious eye irritation and may cause burns.

Ingestion: If swallowed, may cause burns in the mouth, esophagus and stomach.

CHRONIC HEALTH EFFECTS: Repeated exposure without proper hygiene may cause skin rashes.

Other Health Effects: None

LD 50 of Material (Specify Species and Routes) Oral, Rat 2800 mg/kg

LC 50 of Material (Specify Species and Routes) Not available

Exposure (Limits): Not established

Irritancy of Material Skin, eye, nose and throat irritant

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity This product readily dissolves in water to form a weak acid solution. A 0.05% or greater (by weight) solution of this product will likely be acutely harmful to aquatic life.

Environmental Fate

Biodegradability: Not available

Biaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: After neutralizing with an alkaline solution, dispose in accordance with Federal, Provincial

local regulations.

Safe Handling of Residues: Flush with plenty of water.

Disposal of Packaging: Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION: Not regulated

US DOT CLASSIFICATION (49CFR 172.101, 172.102): Not regulated

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: E

NPRI: None of the components are listed.

CEPA: None of the components are listed.

Canada Inventory: All components are listed or exempted.

USA

U.S. Inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304 emergency planning and notification: No products were found.

PH Down / PH Reducer

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium bisulphate: Acute

health hazard

State Regulations: None of the products are listed.

California Prop. 65: No products were found.

INTERNATIONAL

Australia, China, Europe, Japan, Malaysia, Korea, New Zealand, and Philipines: All components are listed or

exempted.

Taiwan: Not determined.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 5, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

PH Up / PH Booster / PH Plus WHMIS: D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

City: BURLING Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Sodium Carbonate

Chemical Family:Sodium SaltChemical Formula:Na2 CO3

Trade Name & Synonyms: Soda Ash

Molecular Weight: Not applicable

Material Use: Pool chemical to boost pH

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2A

Symbol(s)



Signal Word Warning

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements P264 Wash hands thoroughly after handling.

P280 Wear protective clothes/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off all contaminated clothing and wash it before reuse.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Sodium Carbonate 497-19-8 60 - 100

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. Obtain medical attention. Administer artificial respiration or CPR as

required.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush eyes with plenty of water for 15 minutes. Seek medical attention.

Ingestion: Drink 2 or 3 glasses of milk. Contact a physician immediately.

Note to physicians Treat symptomatically. Medical conditions that may be aggravated by exposure to this product

include diseases of the skin, eyes and respiratory tract.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: None in normal use.

Unusual Fire or Explosion Hazards: None
Sensitivity to Mechanical Impact: None
Rate of Burning: None
Explosive Power: None
Sensitivity to Static Discharge: None

Fire Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam, water fog, dry sand..

Instructions to the Fire Fighters: Isolate materials that are not involved in the fire and protect personnel. Use water

spray to cool fire exposed containers or structures. Use water to disperse vapours. Spilled material may cause floors and contact surfaces to become

slippery.

Fire Fighting Protective Equipment: Use self-contained breathing apparatus and protective clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Neutralize with a weak acid to a pH of 6 to 9. Sweep up material and place in a

labeled container for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Use normal industrial hygiene and housekeeping practices. In the presence of

moisture, soda ash and lime dusts combine to form corrosive caustic soda which

may cause burns.

Ventilation Requirements: Use in a well ventilated area.

Other Precautions: Avoid breathing dusts. Avoid contact with eyes, skin or clothing. Wash thoroughly

with soap and water after handling. Wash contaminated clothing before reuse.

STORAGE

Ventilation Requirements: Ventilation should be corrosion proof. Store in a cool, dry area.

Storage Requirements: Keep away from heat, sparks or flames. Keep containers closed. Avoid moisture

contamination. Prolonged storage may result in lumping or caking. Product should not be stored in aluminum, lead or tin. Attacks some types of rubber, plastics and

coatings. Confirm suitability of any packaging before using.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation. Ventilation should be corrosion and explosion proof.

Make up air should be supplied to balance air that is removed by local exhaust

ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): Wear dust mask if prolonged use in a non-ventilated area is unavoidable.

Other (Specify): Wear protective clothing if contact is likely. Eye wash stations are close to work

area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: White granular solid, odourless

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable Upper Explosion Limit (% By Volume): Not applicable Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C) 400°C Specific Gravity: 2.532

Viscosity: Not applicable Vapour Pressure (mm): Not applicable Vapour Density (Air-1): Not applicable Flashpoint (°C) Not applicable **Evaporation Rate** Not applicable **Boiling Point (°C):** Not applicable Freezing Point (°C): Not applicable Solubility In Water (20°C): 17.5% by weight % Volatile (By Weight) Not applicable PH: 11.3 (1% solution) Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes \underline{X} No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No
If So, Which Ones: Acids, lime dust, heat.

Conditions to Avoid: May react with acids causing carbon dioxide evolution and severe

splattering. Contact with lime dust in the presence of moisture can

produce sodium hydroxide.

Hazardous Decomposition Products: Carbon dioxide when burned.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Dust may cause irritation to throat and nose, and respiratory tract.

Skin Contact: Skin contact may cause irritation.

Eye Contact: Eye contact may cause irritation and burns.

Ingestion: Severe gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH EFFECTS: May lead to irritation and/or sensitivity of the skin.

Other Health Effects: Skin irritation may be aggravated in persons with existing skin lesions. Breathing of dust may

Aggravate acute or chronic asthma and other pulmonary diseases.

LD 50 of Material (Specify Species and Routes) 4090 mg/kg, Oral (Rat), >2000 mg/kg,

LC 50 of Material (Specify Species and Routes) 2.3 mg/l, Inhalation, 2 h (Rat)

Exposure (Limits: Not available

Irritancy of Material Skin, eyes, nose and throat irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Daphnia Magnia LC50, 96hr: 265-565mg/l Blue Gill Sunfish LC50, 96hr: 300-320mg/l Daphnia Magnia EC50, 48hr: 1200mg/l

Environmental Fate

Bioaccumulative Potential: Not applicable

Mobility In Soil: Considerable solubility and mobility. Soil/sediments.

SECTION 13

DISPOSAL CONSIDERATIONS

Deactivating Chemicals: Neutralize with a weak acid to a pH of 6 to 9.

Waste Disposal: Dispose absorbed material at an approved landfill site in accordance with Federal, Provincial

and local regulations.

Safe Handling of Residues: See above

Disposal of Packaging: Dispose absorbed material at an approved landfill site in accordance with Federal, Provincial

and local regulations.

SECTION 14 TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION: Not Regulated

US DOT CLASSIFICATION (49CFR 172.101, 172.102): Not Regulated

SECTION 15 REGULATORY INFORMATION

WHMIS: D2B,

HPR COMPLIANCE: This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 5, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Pool Water Stabilizer WHMIS: Non Controlled

Manufacturer's Name: **CAPO INDUSTRIES LTD** Street Address: **1200 CORPORATE DRIVE**

City: **BURLINGTON, ONTARIO**

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Cyanuric Acid **Chemical Family:** Organic acid **Chemical Formula:** C₃ H₃ N₃ O₃ **Trade Name & Synonyms:** Not available

Molecular Weight: 129.07

Material Use: Pool water stabilizer

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: None Symbol(s) None **Signal Word** None **Hazard statements** None **Precautionary statements** None

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

CAS# % Concentration Ingredient

No Regulated Components

SECTION 4 FIRST AID MEASURES

Inhalation: No effects expected. If adverse effects occur, remove person to fresh air. If symptoms of overexposure

occur, get medical attention.

Skin Contact: Wash hands thoroughly with soap and water. If irritation persists, get medical attention.

Eye Contact: Solids should be removed. Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If irritation occurs, get medical attention.

Ingestion: No effects expected. If large amounts are ingested, get medical attention.

Note to physicians: This material causes mild irritation to skin and eyes. Removing the material via irrigation is usually sufficient. There is no anecdote. Cyanuric acid is readily removed from the body via the renal system, and is not bioaccumulated. Treatment is supportive care.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Cyanic acid, ammonia, oxides of carbon and oxides of nitrogen.

Unusual Fire or Explosion Hazards: Not applicable

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use extinguishing agents appropriate for surrounding fire.

Instructions to the Fire Fighters: Move container from fire area if it can be done without risk. Avoid inhalation of

material or combustion by-products. Stay upwind and keep out of low areas.

Fire Fighting Protective Equipment: Wear NIOSH approved positive-pressure self-contained breathing apparatus in

pressure demand mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Avoid contact with eyes. Avoid generating dust. When handling this material,

wear appropriate personal protective equipment. Sweep up material and place in

a clean, labelled container and seal. Keep out of water supplies and sewers.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid generating dust. Wash hands thoroughly after handling. Wear personal

protective equipment.

Ventilation Requirements: Local exhaust ventilation.

STORAGE

Ventilation Requirements: Store in a cool, dry place.

Storage Requirements: Keep separated from incompatible substances. Keep container closed when not

in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Use in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Butyl rubber, natural rubber, neoprene, nitrile or PVC gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): Wear NIOSH approved dust respirator.

Other (Specify): Eye wash and shower stations are close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Mild odour, white, granular, free flowing

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C) $350 - 360^{\circ}\text{C} (662 - 680^{\circ}\text{F})$

Specific Gravity: 1.77

Viscosity: Not applicable

Vapour Pressure: 0.000001 Pa@25°C

Vapour Density (Air-1):

Flashpoint (°C)

Evaporation Rate

Boiling Point (°C):

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Solubility In Water (20°C): 0.20 g/100 g water @ 25°C

% Volatile (By Weight)

PH:

Not applicable

Coefficient Of Water/Oil Distribution:

Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones:

Conditions to Avoid:

Oxidizing agents.

None known

Hazardous Decomposition Products: Cyanic acid, ammonia, oxides of carbon and oxides of nitrogen.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: None expected. Inhalation of powder or fine particulates may cause irritation, cough.

Skin Contact: May cause slight skin irritation.

Eye Contact: May cause mild eye irritation.

Ingestion: No known effects.

CHRONIC HEALTH EFFECTS: None

Other Health Effects: May aggravate pre-existing conditions such as: eye disorders that decrease tear

production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin; and respiratory conditions including asthma and other breathing

disorders.

LD 50 of Material (Specify Species and Routes): 3400 mg/kg, Oral (Mouse), 7700 mg/kg, Oral (Rat),

>5 g/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Routes): >5.25 mg/l, Inhalation 4h (Rat)

Exposure (Limits): Not available

Irritancy of Material Mild skin and eye irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity

This material is believed to be practically non-toxic to aquatic life.

Fish Toxicity

LC50 Bluegill sunfish: >1000 mg/l (96 hour)

LC50 Rainbow trout: >2100 mg/l (96 hour)
LC50 Fathead minnow: >2100 mg/l (96 hour)
LC50 Inland silversides: >8000 mg/l (96 hour)

Invertebrate Toxicity

LC50 Water flea: >1000 mg/l (48 hour) LC50 Mysid shrimp: 4438 mg/l (96 hour)

Algae Toxicity

EC50 Green algae: 655 – 712 mg/l (96 hour) EC50 Navicula pelliculosa: >3780 mg/l (96 hour)

Environmental Fate

Biodegradability: Cyanuric acid biodegrades readily under a wide variety of natural conditions, and

particularly well in systems of either low or zero dissolved-oxygen levels.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility In Soil: Cyanuric acid will have a high soil mobility based on KOC values ranging from 66 to

124.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Reuse or recycle if possible. Dispose of material in accordance with federal, provincial

and local regulations.

Safe Handling of Residues: See above.

Disposal of Packaging: Dispose of container in accordance with federal, provincial and local regulations.

SECTION 14 TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Not regulated

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Not regulated

SECTION 15

REGULATORY INFORMATION

CANADA Listed on DSL and Canada's Ingredient Disclosure List.

WHMIS: Not regulated.

USA Listed on the TSCA inventory.

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: January 1, 1996
Date Revised: December 2, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Scale & Stain WHMIS: D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name:

Chemical Family:

Not applicable

Chelating agent

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H316 Skin corrosion/irritation, Category 3

H319 Serious eye damage/ eye irritation, Category 2A

H335 Specific target organ toxicity, Single exposure, Respiratory tract irritation,

Category 3

Symbol(s)



Signal Word Warning

Hazard statements Causes mild skin irritation and serious eye irritation. May cause respiratory tract

irritation.

Precautionary statements Avoid skin and eye contact. Wear gloves and safety glasses when handling. Wash

hands thoroughly after use. If eye contact, flush eyes with copious amounts of water for 15 minutes. Avoid breathing in mists/fumes/vapours. If inhaled, remove

person to fresh air and seek medical attention.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Sodium Salt of 1 Hydroxyethylidene-1.1-Diphosphonic Acid 29329-71-3

3 - 7

SECTION 4 FIRST AID MEASURES

Inhalation: If mists are inhaled, remove to fresh air and seek medical attention

Skin Contact: Wash hands thoroughly with soap and water for 15 minutes.

Eye Contact: Flush eyes with copious amounts of water for 15 minutes. Seek medical attention if irritation

persists.

Ingestion: Do not induce vomiting. Drink 2 or 3 glasses of water to dilute material. Contact a physician

immediately.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Oxides of carbon and phosphorus.

Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: Containers exposed to intense heat from fires should be cooled with water to

prevent vapour pressure buildup which could result in container rupture. Do not

allow runoff to enter waterways.

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent entry into sewers, drains, or waterways. Dike if needed. Soak up spill

with synthetic or natural absorbent and sweep into a clean, dry and labelled

container for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid skin and eye contact. Wear gloves and safety glasses when handling. Wash hands

thoroughly after use. Do not ingest. Avoid inhalation of chemical.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Keep away from acids, peroxides, metals, and easily ignitable materials. Keep containers

closed when not in use.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation to keep airborne contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): None under normal conditions. Wear a NIOSH approved respirator if there isn't adequate

ventilation.

Other (Specify): Eye wash and shower stations close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear blue liquid, mild odour

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable Upper Explosion Limit (% By Volume): Not applicable Lower Explosion Limit (% By Volume): Not applicable **Decomposition Temp (°C)** Not applicable **Specific Gravity:** 1.310 - 1.340Viscosity: Not available Vapour Pressure (mm): Not applicable Vapour Density (Air-1): Not applicable Flashpoint (°C) Not applicable

Evaporation Rate Not applicable

Boiling Point (°C): 100°C

Freezing Point (°C): 0°C

Solubility In Water (20°C): Soluble

% Volatile (By Weight) 56%

PH: 4 - 6

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes \underline{X} No

If So, Which Ones: Cyanides

Conditions to Avoid: High temperatures.

Hazardous Decomposition Products: CO, CO2, and oxides of phosphorus.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Severe irritation to respiratory tract if mists are inhaled.

Skin Contact: Product may irritate skin.

Eye Contact: Strong eye irritant and may cause burns.

Ingestion: Gastritis - stomach upset, nausea, and diarrhea.

CHRONIC HEALTH EFFECTS: None known
Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): 2850 mg/kg, Oral (Rat), >5000 mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Not established

Irritancy of Material Skin, eye and respiratory tract irritant.

Sensitization of MaterialNone knownSynergistic MaterialsNone known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity Not available

Environmental Fate

Biodegradability: Not available

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed materials in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Clean up residual with absorbent material. Place in appropriate container and flush with

water.

Disposal of Packaging: Dispose containers in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: D2B

CPR Compliance This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR

USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 28, 2015
Date Revised: December 1, 2018

Additional Notes Or References:

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SECTION 1 MATERIAL NAME / IDENTIFIER

Spa Enzyme Clear WHMIS: Not Controlled

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable

Chemical Family: Enzyme

Chemical Formula:Proprietary blendTrade Name & Synonyms:Not applicableMolecular Weight:Not applicableMaterial Use:Spa treatment

SECTION 2 HAZARDS IDENTIFICATION

GHS classification:

Symbol(s)

None

Signal Word

None

Hazard statements

None

Precautionary statements

None

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

No Regulated Components

SECTION 4 FIRST AID MEASURES

Inhalation: Not applicable

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush eyes with copious amounts of water for 15 minutes. Seek medical attention if irritation

persists.

Ingestion: None required.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Not available
Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: See below

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Flush into any sewage of disposal system.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: None required

Ventilation Requirements: None required

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Enzymatic activity may be lost if temperatures exceed 50°C, or if pH exposure is

below 3.5 or above 9.0.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: None required

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): None required

Eye (Specify): Safety glasses if eye contact is likely.

Respiratory (Specify): None required
Other (Specify): None required

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Odourless, straw coloured liquid.

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)
Not available

Specific Gravity: 1.002

Viscosity:

Vapour Pressure (mm):

Not available

Vapour Density (Air-1):

Flashpoint (°C)

Not applicable

Evaporation Rate

Not available

Boiling Point (°C): 100°C

Freezing Point (°C): Not available

Solubility In Water (20°C): Soluble

% Volatile (By Weight) Not available

PH: 3.1

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes \underline{X} No

If So, Which Ones: Oxidizing compounds

Conditions to Avoid: None known
Hazardous Decomposition Products: Not available

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: None expected Skin Contact: None expected

Eye Contact: May cause eye irritation.

Ingestion: None expected, however excessive ingestion may cause mild nausea.

CHRONIC HEALTH EFFECTS: None known

Other Health Effects: None expected. All tests show no inhalation, skin or ingestion toxicity.

LD 50 of Material (Specify Species and Routes): Not available LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits):
Irritancy of Material:
Sensitization of Material:
None known
None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity Not available

Environmental Fate

Biodegradability: Not available
Bioaccumulative Potential: Not available
Mobility In Soil: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Flush into any sewage or disposal system.

Safe Handling of Residues: Flush with plenty of water.

Disposal of Packaging: Empty packaging can be recycled if possible, or dispose in accordance with federal,

provincial, and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: Not Controlled USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: January 1, 1996
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

Safety Data Sheet

Product Identifier

Manufacturer's Name: CAPO INDUSTRIES LTD. Street Address: 1200 Corporate Drive

City: Burlington, Ontario, CANADA

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect) (Transport)

SECTION 1. IDENTIFICATION

Product Identifier Spa Polish

Other Means of Identification Not available

Recommended Use Spa Polish

Restrictions on Use Not available

Initial Supplier Identifier Capo Industries Ltd

Emergency Telephone Number (905) 332-6626 (non-Transport)

SECTION 2. HAZARD IDENTIFICATION

GHS Classification Skin irritation, Category 3

Label Elements None

Signal Word Warning

Hazard Statement(s): H316 Causes mild skin irritation.

Precautionary Statement(s): P332+P317 If skin irritation occurs: Get medical help

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %
Cocoamide DEA (Alternative CAS)	68603-42-9	1 - 5
Glycerin	56-81-5	0.1 – 1.0

SECTION 4. FIRST-AID MEASURES

Inhalation Remove person to fresh air. If breathing is difficult seek medical attention.

Skin Contact

Wash with soap and water. Remove contaminated clothing and wash it before reuse. If skin irritation occurs, get medical help.

Eye Contact

Immediately flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical help if irritation persists.

Ingestion

Do not induce vomiting. If swallowed, rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Most Important Symptoms and Effects, Acute and Delayed

Causes mild skin irritation. It may irritate respiratory system upon frequent or prolonged use. Ingestion may cause nausea and vomiting.

Immediate Medical Attention and Special Treatment

Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Dry chemical, CO₂, foam or water spray.

Unsuitable Extinguishing Media Do not use water jet

Specific Hazards Arising from the Product CO, CO₂ and SiO₂

Special Protective Equipment and Precautions for Fire-Fighters

Wear full protective clothing and a self-contained breathing apparatus. Use water spray to cool fire exposed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Wear appropriate personal protective equipment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Methods for Containment and Cleaning Up

Absorb with a suitable inert material (sand, absorbite). Sweep up and place in an appropriate waste container.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear gloves and safety glasses when handling. Wash hands thoroughly after use.

Conditions for Safe Storage Store in a cool, dry area. Keep from freezing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL		
	TWA	STEL	TWA	STEL	
Cocamide DEA 68603-42-9	None		None		
Glycerin 56-81-5	None		5 mg/m3 - Respirable fraction 15 mg/m3 – Total Dust		

Notes Ensure eye wash and safety shower stations are close to work area.

Appropriate Engineering Controls Use good general ventilation

Individual Protection Measures

Eye/Face Protection Safety glasses/goggles if eye contact is likely.

Skin Protection Latex or rubber gloves if skin contact is likely.

Respiratory Protection None required

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Beige viscous liquid

Odour Odourless

Odour Threshold Not applicable

pH 9 - 10

Melting Point and Freezing Point Not available

Initial Boiling Point and Boiling Range Not available

Flash Point Not available

Evaporation Rate Not available

Spa Polish

Flammability Not flammable

Upper and Lower Flammability or Explosive Limit Not available

Vapour Pressure Not available

Vapour Density (air = 1) Not available

Relative Density (water = 1) 1.026

Solubility in Water Soluble

Solubility in Other Liquids Not available

Partition Coefficient, n-Octanol / Water (Log Kow) Not available

Auto-ignition Temperature Not available

Decomposition Temperature Not available

Viscosity 1000 cps (minimum)

SECTION 10. STABILITY AND REACTIVITY

Reactivity None known

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions None known

Conditions to Avoid Avoid high temperatures.

Incompatible Materials Strong oxidizers.

Hazardous Decomposition Products CO, CO2 and SiO2

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

X Inhalation X Skin contact X Eye contact X Ingestion

Acute Toxicity

LC₅₀ (Inhalation, 4hr) ATE mix: Not available

Spa Polish

LD₅₀ (Oral)

ATE mix: > 5000 mg/kg Rat

LD₅₀ (Dermal)

ATE mix: > 5000 mg/kg Rabbit

Ingestion May cause nausea and vomiting.

Inhalation It may irritate respiratory system upon frequent or prolonged use.

Skin Corrosion / Irritation Causes mild skin irritation.

Serious Eye Damage / Irritation May cause eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure No data available

Aspiration Hazard No data available

STOT (Specific Target Organ Toxicity) - Repeated Exposure No data available

Respiratory and/or Skin Sensitization No data available

Carcinogenicity

Chemical Name	IARC	ACGIH®	OSHA
Cocamide DEA 68603-42-9	Not available		
Glycerin 56-81-5	Not available		

Reproductive Toxicity

Development of Offspring No data available.

Sexual Function and Fertility No data available.

Effects on or via Lactation No data available.

Germ Cell Mutagenicity No data available.

Interactive Effects No data available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available

Persistence and Degradability No data available

Bioaccumulative Potential No data available

Spa Polish

Mobility in Soil No data available

Other Adverse Effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose absorbed material in accordance with federal, provincial and local regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
TDG	None	Not Regulated	None	None	None
DOT	None	Not Regulated	None	None	None

Special Precautions None

Environmental Hazards None known

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

DSL/NDSL

All components are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or are exempt.

USA

TSCA

All components are either on the Toxic Substances Control Act (TSCA) Inventory List or are exempt.

SECTION 16. OTHER INFORMATION

Prepared By (Group, Department): Quality Assurance Telephone: (905) 332-6626

Preparation Date: March 24, 2017
Date of Latest Revision: March 11, 2022

Additional Notes or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial, and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

SPA SHOCK WHMIS: D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable
Chemical Family: Not applicable

Chemical Formula: Mixture

Trade Name & Synonyms: Not applicable

Molecular Weight: Not applicable

Material Use: Spa water treatment chemical

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H315 Skin corrosion/irritation, Category 2

H319 Serious eye damage/eye irritation, Category 2A

H335 Specific target organ toxicity, Single exposure, Respiratory tract irritation

Label Elements

Symbol(s)



Signal Word Warning

Hazard statements Causes skin and serious eye irritation.

Precautionary statements Avoid skin and eye contact. Wear gloves and safety glasses when handling.

Wash hands thoroughly after use. If contact with eyes, flush with copious amounts of water for 15 minutes. Avoid breathing in dusts/fumes/vapours. If

inhaled, remove person to fresh air and seek medical attention.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Pentapotassium Bis(Peroxymonosulphate)

Bis(Sulphate) 70693-62-8 60-100

Dipotassium Peroxodisulphate 7727-21-1 0-5

Sodium Carbonate 497-19-8 10 – 30

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If difficulty breathing, give artificial respiration and seek medical

attention.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush eyes with copious amounts of water and seek medical attention.

Ingestion: Drink 2 or 3 glasses of water or milk to dilute material. Do not induce vomiting. Contact a physician.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: At elevated temperatures of 100°C may liberate oxides of sulphur and carbon.

Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable for extinguishing surrounding fire.

Instructions to the Fire Fighters: See below

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent material from entering drains, sewers, and waterways. Sweep up and place

metal waste containers for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid contact with skin and eyes. Avoid breathing in dust. Wear gloves and safety glasses

when handling. Wash hands thoroughly after use.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Do not mix directly with other chemicals. Keep containers tightly closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: General exhaust ventilation to keep airborne contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): Wear air-purifying respirator with dust/mist cartridge if in a non-ventilated area.

Other (Specify): Impervious clothing if contact is likely. Eye wash and shower stations are close to work

area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Opaque, white granular, odourless

Odour Threshold (ppm): Not applicable

Flammability: Yes No \underline{X}

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C) Not available
Specific Gravity: Not available
Viscosity: Not applicable
Vapour Pressure (mm): Not applicable
Vapour Density (Air-1): Not applicable

Flashpoint (°C) Not applicable
Evaporation Rate Not applicable
Boiling Point (°C): Not available
Freezing Point (°C): Not available

Solubility In Water (20°C): Soluble

% Volatile (By Weight) Not applicable

PH: 6.5 – 7.5 (1% solution)

Coefficient Of Water/Oil Distribution: Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Heavy metal salts, halogenated compounds, cyanides, aluminum, and sulfamic

acid.

Conditions to Avoid: Avoid extreme heat.

Hazardous Decomposition Products: Oxides of sulphur and carbon.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation:Dust may cause irritation to respiratory tract.Skin Contact:Prolonged skin contact will cause irritation.Eye Contact:Eye contact will cause irritation or burns.

Ingestion: Severe gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH EFFECTS: None known
Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): Pentopotassium Bis(Peroxymonosulphate)Bis(Sulphate) 500 mg/kg,

Oral (Rat), >2000 mg/kg, Dermal (Rabbit)

Dipotassium Peroxodisulphate 802 mg/kg, Oral (Rat), >10000 mg/kg,

Dermal (Rabbit)

Sodium Carbonate 4090 mg/kg, Oral (Rat), 2210 mg/kg, Dermal

(Mouse).

LC 50 of Material (Specify Species and Routes): Pentopotassium Bis(Peroxymonosulphate)Bis(Sulphate) >5 mg/l,

Inhalation 4 h (Rat)

Exposure (Limits): Pentopotassium Bis(Peroxymonosulphate)Bis(Sulphate), AEL* (Dupont): 1mg/m3, 15 minute

TWA, Dipotassium Peroxodisulphate, TLV (ACGIH): 0.1 mg/m3, TWA as persulphate.

Irritancy of Material Eye, skin and respiratory tract irritant.

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Pentopotassium Bis(Peroxymonosulphate)Bis(Sulphate) – 96 h LC50 Cyprinodon Variegatus (sheepshead minnow):

1.09 mg/l

- 72 h ERC50 Algae: 1mg/l

- 48 h EC50 Daphnia: 3.5 mg/l

Dipotassium Peroxodisulphate – 48 h LC50 Daphnia Magna (water flea): 92 mg/l

Environmental Fate

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush residues with lots of water.

Disposal of Packaging: Dispose of containers in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated

Class: Not applicable

Packing group: Not applicable
UN: Not applicable

SECTION 15 REGULATORY INFORMATION

CANADA

WHMIS: D2B

CPR Compliance This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR

USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: January 1, 1996
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

SPARKILIZER WHMIS: Non Controlled

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable

Chemical Family: Cationic Polyelectrolyte

Chemical Formula: Proprietary Blend

Trade Name & Synonyms: Not applicable

Molecular Weight: Not applicable

Material Use: Water clarifier/coagulant

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H412 Hazardous to the aquatic environment, Long term hazard, Category 3

Symbol(s): None
Signal Word None

Hazard statement Harmful to aquatic life with long lasting effects.

Precautionary statement Avoid release into the environment.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

No Regulated Components

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air if having difficulty breathing.Skin Contact: Wash thoroughly with soap and water for 15 minutes.

Eye Contact: Flush eyes with copious amounts of water for 15 minutes. Seek medical attention if irritation

persists.

Ingestion: Do not induce vomiting. Give water to dilute. Contact a physician if a large quantity of the product

has been consumed.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Oxides of carbon and nitrogen.

Unusual Fire or Explosion Hazards: Not applicable

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: See below

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent entry into drains, sewers and waterways. Soak up spill with absorbent

material. Sweep up and put into dry, clean and labelled containers for disposal.

Due to the slippery nature of this product, clean up spills immediately and

completely.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Wear gloves and safety glasses when handling. Wash hands thoroughly after

use.

Ventilation Requirements: None required.

STORAGE

Ventilation Requirements: Store in a cool, dry area. Do not freeze.

Storage Requirements: Store at room temperature. Keep containers tightly closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: None required.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Rubber, PVC or latex gloves if skin contact is likely.

Eye (Specify): Safety glasses if eye contact is likely.

Respiratory (Specify): None

Other (Specify): Eye wash and shower stations are close to work area if needed.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear thick blue liquid, mild odour

Odour Threshold (ppm): Not applicable

Flammability: Yes No \underline{X}

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)

Not applicable

Specific Gravity: 1.010

Viscosity: 1300 cps min.

Vapour Pressure (mm): Not available

Vapour Density (Air-1): Not available

Flashpoint (°C) Not applicable

Evaporation Rate Not available

Boiling Point (°C): 100°C

Freezing Point (°C): 0°C

Solubility In Water (20°C): Soluble

% Volatile (By Volume) 94%

PH: 8 - 10

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Strong oxidizers and strong alkalis e.g. ammonia and caustic soda.

Conditions to Avoid: Contact with incompatible materials.

Hazardous Decomposition Products: Oxides of carbon and nitrogen.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: None

Skin Contact: May cause mild irritation.

Eye Contact: May cause mild irritation.

Ingestion: May cause gastritis – stomach upset, nausea, vomiting and diarrhea.

CHRONIC HEALTH EFFECTS: None known
Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): Not available LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): None established

Irritancy of Material Mild skin and eye irritant

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic

environment.

ALGAE TEST RESULTS: Acute Toxicity, Seawater (ISO 10253)

72 h, Marine Algae (Skeletonema Costatum): 0.75 mg/l IC50

Growth Inhibition (OECD 201)

96 h, Green Algae (Selenastrum Capricornutum): >10-100 mg/l IC50

FISH TEST RESULTS: Acute Toxicity, Freshwater (OECD 203)

Zebra Fish (Brachydanio Rerio): >10-100 mg/l LC50

Acute Toxicity, Seawater (Parcom)

Juvenile Turbot (Scophthalmus Maximus): 1769 mg/l LC50

INVERTEBRATE TEST RESULTS: Acute Immobilization (OECD 202)

Water Flea (Daphnia Magna): >10-100 mg/l EC50

Acute Invertebrate Toxicity, Seawater (Parcom)

Marine Copepod (Acartia Tonsa): 204 mg/l EC50 Immobilization

Environmental Fate

Biodegradability: This material is not readily biodegradable.

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Remove residues by scrubbing.

Disposal of Packaging: Dispose of containers in accordance with federal, provincial and local regulations.

SECTION 14 TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: Non Controlled

CPR Compliance: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: January 1, 1996
Date Revised: December 1, 2018

Additional Notes Or References:

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SECTION 1 MATERIAL NAME / IDENTIFIER

Stabilized Granular Chlorine / Spa Granular

WHMIS: It is not regulated under WHMIS. It is

regulated under the Pest Control

Product Act (PCP).

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Sodium Dichloro-S-Triazinetrione Dihydrate

Chemical Family: Chlorinated Isocyanurate

Chemical Formula: NaCl₂ (NCO)₃ 2H₂O

Trade Name & Synonyms: Dichloroisocyanuric Acid Sodium Salt Dihydrate

Molecular Weight: 256

Material Use: Pool water disinfectant

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Acute toxicity, Oral, Category 4

Serious eye damage/eye irritation, Category 2

Specific target organ toxicity, Single exposure, Respiratory tract irritation, Category 3

Hazardous to the aquatic environment, Acute hazard, Category 1
Hazardous to the aquatic environment, Long-term hazard, Category 1

Symbol(s)



Signal Word Warning

Hazard statements H302 Harmful if swallowed.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

Precautionary statements P261 Avoid breathing dust.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable

breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor if you feel unwell.

P330 Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

NFPA: 2 Health, 0 Fire, 1 Reactivity Special Hazard Warning: OXIDIZER.

HMIS: 3 Health, 0 Fire, 1 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Sodium Dichloroisocyanurate Dihydrate 51580-86-0 60 – 100

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for

further treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call

a poison control center or doctor for treatment advice.

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if

present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for

treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of

water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or

doctor. Do not give anything by mouth to an unconscious person.

Note to physicians Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically

and supportively.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Chlorine, carbon monoxide and nitrogen trichloride.

Unusual Fire or Explosion Hazards: When heated to decomposition, may release poisonous and corrosive fumes of

nitrogen trichloride, chlorine and carbon monoxide.

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Water only

Instructions to the Fire Fighters: Cool containers with water spray. On small fires, use water spray or fog. On large

fires, use heavy deluge or fog streams. Flooding amounts of water may be

required before extinguishment can be accomplished.

Fire Fighting Protective Equipment: Wear full protective clothing and self-contained breathing apparatus (SCBA) in

positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: For small spills in a well-ventilated area, wear a NIOSH approved half-face or full

face tight fitting respirator or a loose fitting powered air purifying respirator equipped with chlorine cartridges. Chemical goggles should be worn when using a half-face respirator. In addition to respiratory protection, wear coveralls, chemical resistant gloves, chemical resistant footwear, and chemical resistant headgear for overhead exposure. For clean-up of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing

covering entire body to prevent personal contact with material. CAUTION - If this

material becomes wet/damp or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

Leak and Spill Procedure:

Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur. Do not contaminate spill material with any organic materials, ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container. This material is heavier than and soluble in water. Stop flow of material into water as soon as possible. Begin monitoring for available chlorine and pH immediately. Vapours may be suppressed by the use of water fog.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Do not take internally. Avoid contact with skin, eyes and clothing. Wash hands

thoroughly with soap and water after use.

Ventilation Requirements: Local exhaust ventilation.

STORAGE

Ventilation Requirements: Store in a cool, dry, well-ventilated area.

Storage Requirements: Do not store at temperatures above 60°C/140°F. Keep away from incompatible

materials. Do not allow water to get into containers. Keep containers tightly closed

when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Neoprene gloves if skin contact is likely.

Eye (Specify): Safety glasses if skin contact is likely.

Respiratory (Specify): Use NIOSH/MSHA approved dust or vapour mask when airborne exposure limits are

exceeded.

Other (Specify): Impervious body covering clothes, boots and neoprene apron. Eye wash and shower

stations close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Gas **Physical State:** Liquid Solid <u>X</u>

Odour & Appearance: White, granular, chlorine odour.

Odour Threshold (ppm): Not applicable

Yes Flammability: No Χ

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not self-ignitable. Upper Explosion Limit (% By Volume): Not determined Lower Explosion Limit (% By Volume): Not determined **Decomposition Temp (°C)** 240 - 250°C **Specific Gravity:** 0.982 g/ml **Viscosity:** Not applicable Vapour Pressure (mm): Not applicable Vapour Density (Air-1): Not applicable

Flashpoint (°C) Not applicable **Evaporation Rate** Not applicable **Boiling Point (°C):** Not applicable Freezing Point (°C): Not applicable Solubility In Water (20°C): 24-25 g/100 g % Volatile (By Weight) Not applicable

PH: 6-6.5 (1% solution)

Coefficient Of Water/Oil Distribution: Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes Χ No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes Χ No

If So, Which Ones: Organic materials, reducing agents, nitrogen containing materials,

other oxidizers, acids, bases, oils, grease, sawdust, dry fire

extinguishers containing monoammonium compounds.

Conditions to Avoid: Heating above decomposition temperature. Do not package in paper

or cardboard. If this material becomes damp/wet or contaminated in a

container, the formation of nitrogen trichloride gas may occur and an

explosive condition may exist.

Hazardous Decomposition Products: Nitrogen trichloride, chlorine, and carbon monoxide.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Dust may cause eye, nose, throat and respiratory irritation. It may also cause burns to

the respiratory tract with the production of lung edema that can result in shortness of

breath, wheezing, choking, chest pain, and impairment of lung function.

Skin Contact: Causes severe irritation and/or burns characterized by redness, swelling and scab

formation.

Eye Contact: Severe irritation and/or burns can occur. Contact may cause impairment of vision and

corneal damage.

Ingestion: Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach

and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract

with the potential to cause perforation.

CHRONIC HEALTH EFFECTS: Prolonged skin exposure may cause permanent damage. Inhalation of high

concentrations can result in permanent lung damage from the corrosive action of the

luna.

Other Health Effects: Probable mucosal damage may contraindicate the use of gastric lavage. Treat

symptomatically and supportively.

LD 50 of Material (Specify Species and Routes): 1671 mg/kg, Oral (Rat), >5000 mg/kg, Dermal (Rat)

LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Not available

Irritancy of Material Skin, eyes, nose, throat and respiratory tract irritant.

Sensitization of Material None known

Specific Target Organ Toxicity (STOT) - Single Exposure: No data available

Specific Target Organ Toxicity (STOT) - Repeated Exposure: Chronic inhalation exposure may cause impairment of

lung function and permanent lung damage. In the 28 day extended to 59 day study drinking water study (rat):

NOAEL = 115 mg/kg bw/day.

Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

96 h LC50, Fish 0.22 mg/l (rainbow trout)

0.28 mg/l (bluegill sunfish)

48 h LC50, Daphnia magna 0.2 mg/l

Avian Toxicity:

Oral LD50, Bobwhite quail 730 mg/kg
Oral LD50, Mallard duck 3300 mg/kg
Dietary LC50, Mallard duck >10000 ppm
Dietary LC50, Bobwhite quail >10000 ppm

Environmental Fate

Biodegradability: Not readily biodegradable. Rapidly hydrolyzes in water into Cyanuric acid.

Bioaccumulative Potential: Not expected to bioaccumulate

Mobility In Soil: The degradation product, Cyanuric acid, is weakly adsorbed to and highly mobile in all

soils.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose dry material in accordance to all federal, provincial, and local regulations.

Safe Handling of Residues: See above.

Disposal of Packaging: Empty containers should be disposed in accordance to all federal, provincial, and local

regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION: Not regulated for road transportation.

Proper shipping name: Not applicable
Class: Not applicable
Packing group: Not applicable
UN: Not applicable
Marking: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102): Not regulated for road transportation.

Proper shipping name: Not applicable
Class: Not applicable
Packing group: Not applicable
UN: Not applicable
Marking: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA All components of this substance are listed or exempt on the DSL.

PCP This product is a registered pesticide.

USA All components of this substance are listed or exempt from the inventory. This product is registered

under FIFRA.

SARA (311,312) This product is categorized as an immediate health hazard, and fire and reactivity physical hazard.

Massachusetts and Pennsylvania Right-to-Know Hazardous Substances Lists: Listed.

California Prop 65 This product does not contain any ingredient known to the State of California to cause cancer or reproductive toxicity as listed under the State drinking Water and Toxic Enforcement Act of 1986.

Waste Classifications If this product becomes a waste as defined under 40 CFR 261, it may meet the criteria of a hazardous waste. Please check with all federal, state and local regulations to determine if this product meets the definition of a hazardous waste listed under 40 CFR 262.11.

Workplace Classification This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

INTERNATIONAL

EU Reported in EINECS

Japan ENCS no. (5)-1043, ISHL no. (5)-1043

Australia, New Zealand Inventory, China Inventory, and Philippines Listed

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: April 6, 2015
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Super Clarifier WHMIS: Non Controlled

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable

Chemical Family: Cationic Polyelectrolyte

Chemical Formula: Proprietary Blend

Trade Name & Synonyms: Not applicable

Molecular Weight: Not applicable

Material Use: Water clarifier/coagulant

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H412 Hazardous to the aquatic environment, Long term hazard, Category 3

Symbol(s): None
Signal Word None

Hazard statement Harmful to aquatic life with long lasting effects.

Precautionary statement Avoid release into the environment.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

No Regulated Components

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air if having difficulty breathing.Skin Contact: Wash thoroughly with soap and water for 15 minutes.

Eye Contact: Flush eyes with copious amounts of water for 15 minutes. Seek medical attention if irritation

persists.

Ingestion: Do not induce vomiting. Give water to dilute. Contact a physician if a large quantity of the product

has been consumed.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Oxides of carbon and nitrogen.

Unusual Fire or Explosion Hazards: Not applicable

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: See below

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent entry into drains, sewers and waterways. Soak up spill with absorbent

material. Sweep up and put into dry, clean and labelled containers for disposal.

Due to the slippery nature of this product, clean up spills immediately and

completely.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Wear gloves and safety glasses when handling. Wash hands thoroughly after

use.

Ventilation Requirements: None required.

STORAGE

Ventilation Requirements: Store in a cool, dry area. Do not freeze.

Storage Requirements: Store at room temperature. Keep containers tightly closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: None required.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Rubber, PVC or latex gloves if skin contact is likely.

Eye (Specify): Safety glasses if eye contact is likely.

Respiratory (Specify): None

Other (Specify): Eye wash and shower stations are close to work area if needed.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid \underline{X} Solid

Odour & Appearance: Clear thick blue liquid, mild odour

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C) Not applicable

Specific Gravity: 1.010

Viscosity: 1300 cps min.
Vapour Pressure (mm): Not available
Vapour Density (Air-1): Not available
Flashpoint (°C) Not applicable
Evaporation Rate Not available

Boiling Point (°C): 100°C

Freezing Point (°C): 0°C

Solubility In Water (20°C): Soluble

% Volatile (By Weight) 94%

PH: 8 - 10

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Strong oxidizers and strong alkalis e.g. ammonia and caustic soda.

Conditions to Avoid: Contact with incompatible materials.

Hazardous Decomposition Products: Oxides of carbon and nitrogen.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: None

Skin Contact: May cause mild irritation.

Eye Contact: May cause mild irritation.

Ingestion: May cause gastritis – stomach upset, nausea, vomiting and diarrhea.

CHRONIC HEALTH EFFECTS: None known **Other Health Effects:** None known

LD 50 of Material (Specify Species and Routes): Not available LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): None established

Irritancy of Material Mild skin and eye irritant

Sensitization of Material None known
Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic

environment.

ALGAE TEST RESULTS: Acute Toxicity, Seawater (ISO 10253)

72 h, Marine Algae (Skeletonema Costatum): 0.75 mg/l IC50

Growth Inhibition (OECD 201)

96 h, Green Algae (Selenastrum Capricornutum): >10-100 mg/l IC50

FISH TEST RESULTS: Acute Toxicity, Freshwater (OECD 203)

Zebra Fish (Brachydanio Rerio): >10-100 mg/l LC50

Acute Toxicity, Seawater (Parcom)

Juvenile Turbot (Scophthalmus Maximus): 1769 mg/l LC50

INVERTEBRATE TEST RESULTS: Acute Immobilization (OECD 202)

Water Flea (Daphnia Magna): >10-100 mg/l EC50

Acute Invertebrate Toxicity, Seawater (Parcom)

Marine Copepod (Acartia Tonsa): 204 mg/l EC50 Immobilization

Environmental Fate

Biodegradability: This material is not readily biodegradable.

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Remove residues by scrubbing.

Disposal of Packaging: Dispose of containers in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: Non Controlled

CPR Compliance: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 29, 2015
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Tile & Liner Cleaner WHMIS: D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name:Not applicableChemical Family:Not applicableChemical Formula:Not applicableTrade Name & Synonyms:Not applicableMolecular Weight:Not applicable

Material Use: All Purpose Cleaner

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H315 Skin corrosion/irritation, Category 2

H320 Serious eye damage/eye irritation, Category 2B

Symbol(s)



Signal Word Warning

Hazard statements Causes skin irritation. Causes eye irritation.

Precautionary statements Avoid skin and eye contact. Wear gloves and safety glasses when handling.

Wash hands thoroughly after use. If in eyes, flush with copious amounts of water

for 20 minutes. Seek medical attention if irritation persists.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
Dipropylene Glycol Mono Methyl Ether	34590-94-8	3 – 7
Dipropylene Glycol Mono Butyl Ether	29911-28-2	3 – 7
Sodium Xylenesulphonate	1300-72-7	3 – 7

Tetrasodium Ethylene Diamine Tetraacetate	64-02-8	3 - 7
Soda Ash	497-19-8	1 – 5
Sodium Dodecyl Benzene Sulfonate	25155-30-0	1 – 5
Ethoxylated C12-15 Alcohol	68131-39-5	0.5 - 1.5
D'Limonene	5989-27-5	0.1 - 1.0

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush eyes with copious amounts of water for 20 minutes. Seek medical attention if irritation

persists.

Ingestion: Drink 2 to 3 glasses of water to dilute. Do not induce vomiting. Seek medical attention immediately.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: CO and CO2
Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: See below

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Absorb with synthetic or natural absorbent and place in a clean, dry labelled

container for disposal. Flush area with copious amounts of water.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid skin and eye contact. Wear gloves and safety glasses when handling. Wash hands

thoroughly after use.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Keep away from incompatibles. Keep containers tightly closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: None required
PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): None required

Other (Specify): Eye wash and shower stations are close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear blue liquid, lemon odour

Odour Threshold (ppm): Not available

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)

Not available

Specific Gravity: 1.046

Viscosity:

Vapour Pressure (mm):

Not available

Not available

Not available

Not available

Not available

Not applicable

Evaporation Rate Not available

Boiling Point (°C): 100°C

Freezing Point (°C): Not available

Solubility In Water (20°C): Soluble
% Volatile (By Weight) 89.0%
PH: 10.5

Coefficient Of Water/Oil Distribution: Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No
If So, Which Ones: Oxidizing compounds

Conditions to Avoid: None known
Hazardous Decomposition Products: CO and CO2

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: None expected

Skin Contact: May cause irritation, burning and defatting of the skin.

Eye Contact: May cause irritation or burning of the eyes.

Ingestion: Gastrointestinal upset, vomiting, and possible diarrhea.

CHRONIC HEALTH EFFECTS: None known **Other Health Effects:** None known

LD 50 of Material (Specify Species and Routes): Not available LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Not established
Irritancy of Material: Skin and eye irritant.
Sensitization of Material: None known
Synergistic Materials: None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity Not available

Environmental Fate

Biodegradability: Not available
Bioaccumulative Potential: Not available
Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush with copious amounts of water.

Disposal of Packaging: Dispose packaging in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: D2B

USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: June 10, 2015
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Ultra Spa WHMIS: D2A

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable

Chemical Family: Borates

Chemical Formula: Proprietary Blend

Trade Name & Synonyms: None

Molecular Weight: Not applicable

Material Use: Spa water conditioner & buffer

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H302 Acute toxicity, Oral, Category 4

H335 Specific target organ toxicity, Single Exposure, Respiratory tract irritation,

Category 3

H401 Hazardous to the aquatic environment, Acute hazard, Category 2

Symbol(s)



Signal Word Warning

Hazard statements Harmful if swallowed. May cause respiratory tract irritation. Toxic to aquatic life.

Precautionary statements Do not ingest. If ingested, do not induce vomiting, drink 2 or 3 glasses of water and

seek medical attention. Avoid breathing in dusts/vapours/fumes. If inhaled, remove person to fresh air and seek medical attention. Avoid release into the environment.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Sodium Tetraborate Pentahydrate 12179-04-3 10 – 30

Boric Acid 10043-35-3 60 – 100

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. Administer artificial respiration if person is having difficulty

breathing and seek medical attention.

Skin Contact: Wash thoroughly with soap and water. Seek medical attention if redness or irritation develops.

Eye Contact: Flush eyes with copious amounts of water for 20 minutes. Seek medical attention if irritation

develops.

Ingestion: Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not

convulsing rinse mouth with water and give ½ to 1 glass of water to dilute material. Immediately contact local poison control centre. Vomiting should only be induced on the advice of a poison control centre or physician. If spontaneous vomiting occurs, have victim lean forward with head down to avoid inhaling in of vomitus. Rinse mouth and give more water. Immediately transport victim

to an emergency facility.

Note to physicians For Borate ingestion or overexposure: Treat for Alkaline exposure or ingestion. Give vinegar in large

amounts or water or diluted orange or lemon juice. Follow with demulcent. Do not use emetics or stomach tube. Assure adequate hydration. After ingestion or absorption into the blood stream of large amounts (15g or more), symptoms may appear after 24 to 72 hours. Borates are readily dissipated through the urine (20% in the first 24 hours). Observation only is required for adult ingestion of less than 6g of product. For ingestion in excess of 6g, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hem dialysis should be reserved for massive acute ingestion or patients with renal failure. Boron assay of urine or blood is only useful for documenting exposure and should not be used to evaluate severity

poisoning or to guide treatment.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Not applicable **Unusual Fire or Explosion Hazards:** None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable

Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: See below

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Sweep up material and place in clean, dry labelled container for disposal. Do not

allow product to enter sewers or waterways. This material is toxic to aquatic life. The

product can be toxic to plants.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid prolonged skin contact. Avoid breathing in dust. Wear gloves and safety

glasses when handling. Wash hands thoroughly after use.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Do not store sealed containers at temperatures above 40°C. Avoid moisture

contamination.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation to keep airborne contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex, PVC or rubber gloves if prolonged skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): Wear dust mask if prolonged use in non-ventilated area is unavoidable.

Other (Specify): Wear a NIOSH/MSA approved dust mask for concentrations of nuisance dust up to

100 mg/m3. An air supplied respirator of concentrations higher or unknown.

Eye wash and shower stations close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Speckled blue powder, sweet odour

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)

Not available

Specific Gravity: 0.849

Viscosity:

Vapour Pressure (mm):

Vapour Density (Air-1):

Flashpoint (°C)

Evaporation Rate

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Freezing Point (°C): 200°C

Solubility In Water (20°C): 3.6% by weight % Volatile (By Weight) Not applicable

PH: 7.0 - 8.0 (1% solution)

Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes \underline{X} No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Elemental zirconium, base metals, alkali metals, reducing agents, and metal

hydrides.

Conditions to Avoid: Reacts with strong reducing agents such as metal hydrides or alkali metals to

generate flammable and explosive hydrogen gas.

Hazardous Decomposition Products: None known

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Dust may cause irritation to throat and nose and respiratory tract.

Skin Contact: Not expected to cause irritation under normal conditions. Skin contact may cause

irritation due to abrasive action. May cause defatting, drying and cracking of the skin. May be readily absorbed through broken or damaged skin. Toxic effects may be delayed.

Eye Contact: Eye contact may cause irritation and possible damage due to abrasion.

Ingestion: Ingestion of large amounts may cause nausea, gastrointestinal upset and abdominal

pain. May cause diarrhea, circulatory collapse, cyanosis, convulsions, coma, nausea,

vomiting and death.

CHRONIC HEALTH EFFECTS: May lead to irritation and/or sensitivity of the skin.

Other Health Effects: Boric acid may cause cyanosis. Cyanosis is characterized by navy blue, almost black

Lips, tongue and mucous membranes with skin colour being slate grey. Further Manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor,

Respiratory distress and death due to anoxia.

LD 50 of Material (Specify Species and Routes): Boric Acid: 2660 mg/kg, Oral (Rat), >2000 mg/kg, Dermal

(Rabbit)

Sodium Tetraborate Pentahydrate 30%: 8866.7 mg/kg, Oral (Rat)

LC 50 of Material (Specify Species and Routes): Boric Acid: >2.0 mg/l, Inhalation (Rat)

Sodium Tetraborate Pentahydrate 30%: Not available

Exposure (Limits): Boric Acid ACGIH TLV, Inhalable fraction TWA: 2 mg/m3, 8 h, STEL: 6 mg/m3, 15 min.

Sodium Tetraborate Pentahydrate ACGIH TLV, Inhalable fraction TWA: 2 mg/m3,

STEL: 6 mg/m3, OSHA TWA: 10 mg/m3, Total Dust.

Irritancy of Material Skin, eye, nose and throat irritant.

Sensitization of Material None known

Synergistic Materials None known

Carcinogenicity, Mutagenicity None known

Reproductive Effects Boric acid and borates may cause reproductive effects based on laboratory animal

studies. Animal studies show that ingestion of large amounts of borates over prolonged periods causes a decrease in sperm production and testicle size in male laboratory

animals. No symptoms have been noted in humans.

Teratogenicity: Boric acid and borates may cause teratogenic/embryo toxic effects based on studies on

laboratory animals. Animal studies show that ingestion of large amount of borates over prolonged periods cause developmental effects in fetuses of pregnant female animals.

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

BORIC ACID: LC50 1100 mg/l, Fish (Oncorhynchus mykiss), 96 h

LC50 53 mg/l, Daphnia (Daphnia magna), 21 days

SODIUM TETRABORATE PENTAHYDRATE: Not available

Environmental Fate

Biodegradability: Boric acid and Sodium Tetraborate Pentahydrate decomposes in the environment to natural borate.

In aqueous solutions Sodium Tetraborate Pentahydrate is converted substantially into dissociated

boric acid.

Bioaccumulative Potential: Not available

Mobility In Soil: Sodium Tetraborate Pentahydrate is soluble in water and is leachable through normal soil.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush residues with copious amounts of water.

Disposal of Packaging: Empty containers should be recycled or disposed through an approved waste management

facility.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA All components of this product are either on the DSL or exempt

WHMIS: D2A

CPR Compliance: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

USA Not available

INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: January 1, 1996
Date Revised: December 1, 2018

Additional Notes Or References:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.

SECTION 1 MATERIAL NAME / IDENTIFIER

Whirlpool Rinse WHMIS: D2B

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name:

Chemical Family:

Not applicable

Wolecular Weight:

Not applicable

Wolecular Weight:

Whirlpool Cleaner

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H315 Skin corrosion/irritation, Category 2

H320 Serious eye damage/eye irritation, Category 2B

Symbol(s)



Signal Word Warning

Hazard statements Causes skin irritation. Causes eye irritation.

Precautionary statements Avoid skin and eye contact. Wear gloves and safety glasses when handling.

Wash hands thoroughly after use. If in eyes, flush with copious amounts of water

for 20 minutes. Seek medical attention if irritation persists.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
Ethoxylated Propylated Isodecyl Alcohol	37251-67-5	7 - 13
Sodium Xylenesulphonate	1300-72-7	5 - 10
Sulphuric Acid	7664-93-9	0.5 - 1.5

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush eyes with copious amounts of water for 20 minutes. Seek medical attention if irritation

persists.

Ingestion: Drink 2 to 3 glasses of water to dilute. Do not induce vomiting. Seek medical attention immediately.

Note to physicians None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: CO and CO2
Unusual Fire or Explosion Hazards: None known

Sensitivity to Mechanical Impact: None

Rate of Burning: Not applicable Explosive Power: Not applicable

Sensitivity to Static Discharge: None

Fire Extinguishing Media: Use media suitable to extinguish source of fire.

Instructions to the Fire Fighters: See below

Fire Fighting Protective Equipment: Wear full protective clothing and a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Absorb with synthetic or natural absorbent and place in a clean, dry labelled

container for disposal. Flush area with copious amounts of water.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid skin and eye contact. Wear gloves and safety glasses when handling. Wash hands

thoroughly after use.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry area.

Storage Requirements: Keep away from incompatibles. Keep containers tightly closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: None required
PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Latex or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles if eye contact is likely.

Respiratory (Specify): None required

Other (Specify): Eye wash and shower stations are close to work area.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Clear green liquid, floral scent.

Odour Threshold (ppm): Not available

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Decomposition Temp (°C)

Not available

Specific Gravity: 1.062

Viscosity:

Vapour Pressure (mm):

Not available

Vapour Density (Air-1):

Flashpoint (°C)

Not applicable

Evaporation Rate

Not available

Boiling Point (°C): 100°C

Freezing Point (°C): Not available

Solubility In Water (20°C): Soluble
% Volatile (By Weight) 80.0%
PH: 4.5

Coefficient Of Water/Oil Distribution: Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes \underline{X} No If So, Which Ones: Oxidizing compounds

Conditions to Avoid: None known
Hazardous Decomposition Products: CO and CO2

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: None expected

Skin Contact: May cause irritation, burning and defatting of the skin.

Eye Contact: May cause irritation or burning of the eyes.

Ingestion: Gastrointestinal upset, vomiting, and possible diarrhea.

CHRONIC HEALTH EFFECTS: None known **Other Health Effects:** None known

LD 50 of Material (Specify Species and Routes): Not available LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Not established
Irritancy of Material: Skin and eye irritant.
Sensitization of Material: None known
Synergistic Materials: None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity Not available

Environmental Fate

Biodegradability: Not available
Bioaccumulative Potential: Not available
Mobility In Soil: Not available

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose absorbed material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush with copious amounts of water.

Disposal of Packaging: Dispose packaging in accordance with federal, provincial and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Not regulated
Class: Not applicable
Packing group: Not applicable
UN: Not applicable

SECTION 15

REGULATORY INFORMATION

CANADA WHMIS: D2B
USA Not available
INTERNATIONAL Not available

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: June 10, 2016
Date Revised: December 1, 2018

Additional Notes Or References:

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