

MATERIAL SAFETY DATA SHEET

SECTION I MATERIAL NAME / IDENTIFIER

BROMINATING GRANULES **WHMIS:** D2B,C,E – Regulated under the PCP Act

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: Not applicable
Trade Name & Synonyms:
Molecular Weight: Not applicable
Material Use: Spa Water Disinfectant

SECTION II HAZARDOUS INGREDIENTS

Hazardous Ingredients	Approx Conc %	C.A.S. N.A. U.N. Number	LD 50 Specify Species & Route (Oral, RAT)	LC 50 Specify Species & Route (Inhal, RAT)
Sodium Dichloride-S Triazinetrione	60-100	2893-78-9	670mg/kg	Not available
Sodium Bromide	10-20	7647-15-6	4200 mg/kg	Not available

SECTION III PHYSICAL DATA FOR MATERIAL

Physical State: **Gas** **Liquid** **Solid** **X**

Odour & Appearance: Not applicable

Odour Threshold (Ppm): White, opaque, granular, chlorine odour

Specific Gravity: 964 kg/m³

Vapour Pressure (Mm): Not applicable

Vapour Density (Air-1): Not applicable

Evaporation Rate: Not applicable

Boiling Point (C): 238- 249- decomposes

Freezing Point (C): Not applicable

Solubility In Water (20c): 30g in 100g H₂O @ 25 deg C

% Volatile (By Weight) Not applicable

Ph: 6.5 (1% solution)

Coefficient Of Water/Oil Distribution: Not available

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SECTION IV - FIRE & EXPLOSION HAZARD OF MATERIAL

Flammability: Yes No X
If Yes, Under Which Conditions?: Not flammable, but if heated by other sources to 238 – 249 deg C
It will undergo decomposition with evolution of heat and dense, Noxious fumes.
Means Of Extinction: Water
Special Procedures: Wear full protective clothing and breathing apparatus when fire fighting
Flashpoint (Celsius) And Method: Not applicable
Autoignition Temperature (Celsius): Not applicable
Lower Explosion Limit (% By Volume): Not applicable
Upper Explosion Limit (% By Volume): Not applicable
Hazardous Combustion Products: Chlorine gas and traces of phosgene

EXPLOSION DATA

Sensitivity To Mechanical Impact: None **Sensitivity To Static Discharge:** None

SECTION V REACTIVITY DATA

Chemical Stability: Yes X No
If No, Under Which Conditions?:
Incompatibility To Other Substances: Yes X No
If So, Which Ones: easily oxidizable organic materials, ammonia, urea, or similar Nitrogen containing compounds, inorganic reducing compounds, Calcium hypo-chlorite, alkalis and acids. If damp material may emit Violently explosive NI/3 gas.
Reactivity And Under What Conditions:
Hazardous Decomposition Products: At temperatures of 204 deg C and greater, chlorine gas and traces of Phosgene will be liberated.

SECTION VI TOXICOLOGICAL PROPERTIES OF MATERIAL

Route Of Entry:
: Skin Contact X :Skin Absorption : Eye Contact X
: Inhalation Acute X :Inhalation Chronic : Ingestion X

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

Skin: Corrosive
Eye: Corrosive
Inhalation: Fumes may produce eye, nose, throat and respiratory tract irritation
Ingestion: .This product may be harmful if swallowed. Corrosive to mucous membranes.

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Effects Of Chronic Exposure To Material: None known
Other Health Effects: None known
Ld 50 Of Material (Specify Species And Routes): SEE SECTION 11
Lc 50 Of Material (Specify Species And Routes): SEE SECTION 11
Exposure (Limits): Chlorine – TWAEV – 1ppm, 3mg/m3
STEVEV - 3ppm, 4mg/m3
May be found in head space of containers
Irritancy Of Material: Strong irritant of skin, eye, nose and throat.
Sensitization Of Material: None known
Synergistic Materials: None known
Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION VII PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves (Specify): Rubber gloves if skin contact is likely
Eye (Specify): Safety glasses if eye contact is likely
Respiratory (Specify): Use NIOSH/MSHA approved dust or vapour mask when airborne exposure limits are exceeded.
Other (Specify): Protective clothing if contact is likely
Engineering Controls (e.g. Ventilation, Enclosed Process – Specify): Use in a well ventilated area
Leak And Spill Procedure: If material is spilled, clean up as soon as possible to prevent contamination with a material with which it may react. Keep spilled material dry. Sweep up and place material in a dry, clean container.
Waste Disposal: If material is dry, disposal by incineration is recommended. Alternate method for disposal is by neutralizing to a non-oxidizing residue. Keep un-neutralized material out of sewers, watersheds and water systems.
Handling Procedures And Equipment: Avoid skin, eye and clothing contact. Use in well ventilated area. Wash thoroughly with soap and water after handling.
Storage Requirements: Store in cool, dry area. Do not allow water to get into containers. Keep containers tightly closed when not in use.
Special Shipping Information:
Transportation: Dichloroisocyanuric Acid Dry Salts
Class: 5.1
Pkg. Group: 11
P.I.N./Un: 2465 1Kg and under Ltd Qty

SECTION VIII FIRST AID MEASURES

Skin: Wash thoroughly with soap and water. Should irritation persist, contact a physician.
Eye: Flush eye with plenty of water for 15 minutes. Seek medical attention.
Inhalation: Remove person to fresh air. Call a physician.
Ingestion: Drink 2 or 3 glasses of water, or milk. Do not induce vomiting. Contact a physician.
Note to Physician: Probable mucosal damage may contra-indicate the use of gastric lavage.

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SECTION IX

PREPARATION DATE OF M.S.D.S.

Prepared By (Group, Department, Etc.): Plant Chemist Telephone: (905) 332-6626

Preparation Date: JANUARY 1 1996
Date Of Latest Revision/Review: December 12, 2016

Additional Notes Or References:

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