

SAFETY DATA SHEET

SECTION 1 MATERIAL NAME / IDENTIFIER

Calcium Hypochlorite 65% / HyChlor WHMIS: C, D2B, 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: Calcium Hypochlorite
Chemical Family: Hypochlorites
Chemical Formula: $\text{Ca}(\text{OCL})_2$
Trade Name & Synonyms: Pool Shock
Molecular Weight: 142
Material Use: Pool Water Disinfectant

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Oxidizing solid, Category 2
Acute toxicity, Oral, Category 4
Skin Corrosion/irritation, Category 1B
Specific target organ toxicity, Single exposure, Respiratory tract irritation, Category 3
Hazardous to the aquatic environment, acute hazard, Category 1

Symbol(s):



Signal Word: Danger

Hazard statement(s): H272 May intensify fire; oxidizer
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

Precautionary statement(s): P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

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P220 Keep away from clothing and other 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.

P301+P312 IF SWALLOWED: Call a POISON CENTER or 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.

P321 Specific treatment (see first aid on this label).

P363 Wash contaminated clothing before reuse.

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

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 federal, provincial and local regulations.

SECTION 3

COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
Calcium Hypochlorite	7778-54-3	60 – 76
Sodium Chloride	7647-14-5	10 - 30
Calcium Chlorate	10137-74-3	0 – 3
Calcium Chloride	10043-52-4	0.1
Calcium Hydroxide	1305-62-0	1 - 3
Calcium Carbonate	471-34-1	1 - 3

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SECTION 4

FIRST AID MEASURES

- Inhalation:** Remove person 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 attention immediately.
- Skin Contact:** Wash thoroughly with soap and water for a minimum of 20 minutes. Obtain medical attention.
- Eye Contact:** Flush eyes thoroughly with water for a minimum of 20 minutes. Seek medical attention immediately.
- Ingestion:** Rinse mouth. Give ½ to 1 glass of water to dilute material. Immediately contact poison control center. Vomiting should only be induced under the direction of a physician or poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus. Rinse mouth and administer more water. Immediately transport victim to emergency facility.
- Note to physicians:** Probable mucosal damage may contraindicate the use of gastric lavage. All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5

FIRE – FIGHTING MEASURES

- Hazardous Combustion Products:** Thermal decomposition products are toxic and may include carbon oxides, halogenated compounds; metal oxide/oxides.
- Unusual Fire or Explosion Hazards:** Containers may explode when heated. May explode from heat or contamination. May ignite combustibles (wood, paper, oil, clothing, etc.) Runoff may create fire or explosion hazard. Some will react explosively with hydrocarbons. These substances will accelerate burning when involved in a fire. Emits toxic fumes under fire conditions. Chlorine gas may be generated.
- Sensitivity to Mechanical Impact:** None
- Rate of Burning:** Not available
- Explosive Power:** Not available
- Sensitivity to Static Discharge:** None
- Fire Extinguishing Media:** Water only. Do not use dry extinguishers containing ammonium compounds.
- Instructions to the Fire Fighters:** Use water to cool containers exposed to fire.
- Fire Fighting Protective Equipment:** Self-contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots are needed in addition to normal fire fighter equipment.

SECTION 6

ACCIDENTAL RELEASE MEASURES

- Leak And Spill Procedure:** Prevent entry into waterways, sewers, basements or confined areas. Clean up

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spillage and equipment at once. Place spilled material into a clean dry container. Rinse residue with plenty of water. Do not throw in regular garbage. Never return spilled material into original container.

SECTION 7

HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid contact with eyes, skin and clothing. Avoid breathing vapours and dust. Upon contact with skin or eyes, wash off with water. Remove contaminated clothing and wash before use.

Ventilation Requirements: General exhaust ventilation.

STORAGE

Ventilation Requirements: Cool (less than 35°C), dry, well ventilated area.

Storage Requirements: Keep product tightly sealed in original containers. Store away from combustible or Flammable products. Keep product packaging clean and free of all contamination, e.g. Other pool treatment products, acids, oxidizers, organic and combustible materials.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust. Use only in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Natural rubber or neoprene gloves.

Eye (Specify): Chemical worker goggles/glasses with side shields.

Respiratory (Specify): Wear NIOSH/MSHA respirator for dust up to 25 mg/kg particulate and chlorine if TWA, STEL are to be exceeded.

Other (Specify): Safety shower and eye wash station near exposure is recommended.

SECTION 9

PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: Free flowing white granules; chlorine odour

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not available

Lower Explosion Limit (% By Volume): Not available

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Upper Explosion Limit (% By Volume):	Not available
Decomposition Temp. (°C):	180°C
Specific Gravity:	0.800 - .960
Viscosity (cps):	Not applicable
Vapour Pressure (mm):	Not applicable
Vapour Density (Air-1):	Not applicable
Flashpoint (°C)	Not available
Evaporation Rate	Not applicable
Boiling Point (°C):	Not applicable
Freezing Point (°C):	Not applicable
Solubility In Water (20°C):	100%
% Volatile (By Weight)	Not applicable
PH:	(1% solution) 10.5 – 11.5
Coefficient Of Water/Oil Distribution:	Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	Yes	<input checked="" type="checkbox"/>	No
If No, Under Which Conditions?:			
Incompatibility To Other Substances:	Yes	<input checked="" type="checkbox"/>	No
If So, Which Ones:	Acids, ammonia, organic material, urea, similar nitrogen containing compounds may initiate a fire.		
Conditions to Avoid:	Avoid heat, moisture and organic compounds. May initiate a fire.		
Hazardous Decomposition Products:	Product slowly releases chlorine gas.		

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation:	Severe irritation or nose, throat and respiratory tract. Repeated/prolonged exposures may cause productive cough, runny nose, bronchia pneumonia, pulmonary edema (fluid build up in lungs) and reduction of pulmonary function.
Skin Contact:	Strong irritant, may cause burns.
Eye Contact:	Strong irritant, may cause burns or permanent damage (glaucoma, cataracts, corneal scarring, clouding, permanent blindness.
Ingestion:	Severe pain in mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.
Other Health Effects:	Corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous

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membranes and respiratory tract. The dry material is irritating to the skin. However when wet, it will produce burns to the skin.

CHRONIC HEALTH EFFECTS

Irritancy of Material Strong eye and skin irritant.

Sensitization of Material None known

Synergistic Materials Not available

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

LD 50 of Material (Specify Species and Routes): (Calcium Hypochlorite 65%) 850 mg/kg Rat, Oral
(Sodium Chloride) 3000mg/kg Rat, Oral
(Calcium Chloride) 1000mg/kg Rat, Oral
(Calcium Hydroxide) 7340mg/kg Rat, Oral

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

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

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Highly toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: CALCIUM HYPOCHLORITE

Bluegill – (*Lepomis macrochirus*), 96 h LC50 0.057-0.060 mg/l

Atlantic Silverside, 96 h LC50 0.037 mg/l

Bluegill Sunfish, 96 h LC50 0.088 mg/l

Water Flea – (*Daphnia Magna*), 48 h EC50 0.073-0.079mg/l

Environmental Fate:

Biodegradability: Not available

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance to all applicable federal, provincial and local regulations.

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

Disposal of Packaging: Dispose in accordance to all applicable federal, provincial and local regulations.

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SECTION 14 TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

UN number : 2880
Description of the goods : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE
Class : 5.1
Packing group : II

US DOT CLASSIFICATION

UN number : 2880
Description of the goods : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE
Class : 5.1
Packing group : II

IATA

UN number : 2880
Description of the goods : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE
Class : 5.1
Packing group : II

IMDG-CODE

UN number : 2880
Description of the goods : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE
Class : 5.1
Packing group : II
EmS Number 1 : F-H
EmS Number 2 : S-Q

Marine pollutant : yes

SECTION 15 REGULATORY INFORMATION

CANADA Listed on the DSL

WHMIS: C, D2B, E

USA

TSCA: Listed on TSCA Inventory.

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Superfund Amendments and Reauthorization Act (SARA) Title III

Hazard Categories Sections 311/312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard

Physical Fire Hazard

EPCRA – Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Calcium Hypochlorite (7778-54-3): 10lbs

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL

Europe (EINECS) Listed.

SECTION 16

OTHER INFORMATION

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

Preparation Date: January 1, 1996
Date Revised: December 1, 2020

Additional Notes Or References:

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