

SAFETY DATA SHEET

SECTION 1

MATERIAL NAME / IDENTIFIER

C-Clear / Clear All

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.
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.
P310 Immediately call a POISON CENTER or doctor.
P390 Absorb spillage to prevent material-damage.

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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.
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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

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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	<input checked="" type="checkbox"/>	No
If No, Under Which Conditions?:			
Incompatibility To Other Substances:	Yes	<input checked="" type="checkbox"/>	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

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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 (*Oncorhynchus 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

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US DOT CLASSIFICATION (49CFR 172.101, 172.102)

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

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

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Additional Notes Or References:

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