

# MATERIAL SAFETY DATA SHEET

## SECTION I 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 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)
Aluminum Chloride Hydroxide Sulphate	15-40	39290-78-3	12.8 g/kg	Not available

## SECTION III PHYSICAL DATA FOR MATERIAL

Physical State: Gas      Liquid      X      Solid

Odour & Appearance: Clear, blue, odourless

Odour Threshold (Ppm): Not applicable

Specific Gravity: 1.20

Vapour Pressure (Mm): 17 mm/hg

Vapour Density (Air-1): Not applicable

Evaporation Rate: Not available

Boiling Point (C): 100 deg C

Freezing Point (C): -12 deg C

Solubility In Water (20c): Soluble

% Volatile (By Volume) 80% (water)

Ph: 2.20

Coefficient Of Water/Oil Distribution: Greater than 1

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## SECTION IV - FIRE & EXPLOSION HAZARD OF MATERIAL

**Flammability:** Yes No **X**  
**If Yes, Under Which Conditions?:** Not applicable  
**Means Of Extinction:** Use media suitable to extinguish source of fire.  
**Special Procedures:** Wear self contained 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:** None

## 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?:** Not applicable  
**Incompatibility To Other Substances:** Yes **X** No  
**If So, Which Ones:** Strong oxidizers, strong reducing agents.  
**Reactivity And Under What Conditions:** Reacts with aluminum or zinc to/from hydrogen gas.  
**Hazardous Decomposition Products:** Hydrogen chloride gas.

## SECTION VI TOXICOLOGICAL PROPERTIES OF MATERIAL

### Route Of Entry:

: Skin Contact **X** :Skin Absorption : Eye Contact **X**  
: Inhalation Acute :Inhalation Chronic : Ingestion **X**

### EFFECTS OF ACUTE EXPOSURE TO MATERIAL

**Skin:** Irritant

**Eye:** Irritant, may cause burns.

**Inhalation:** None expected on short term use.

**Ingestion:** Small quantities – nausea, vomiting, 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.

**Effects Of Chronic Exposure To Material:** 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):** See Section II

**Lc 50 Of Material (Specify Species And Routes):** See Section II

**Exposure (Limits):** None Established

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**Irritancy Of Material:** Skin and eye irritant  
**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):** Neoprene or rubber gloves if skin contact is likely.  
**Eye (Specify):** Safety glasses if eye contact is likely.  
**Respiratory (Specify):** If mists are encountered, use NIOSH-approved respirator.  
**Other (Specify):** Impermeable clothing and foot wear if contact is likely.  
**Engineering Controls (e.g. Ventilation, Enclosed Process – Specify):** None.  
**Leak And Spill Procedure:** Soak spill with absorbent material and transfer to metal drums. Spill may be neutralized with soda ash to pH between 6 and 9.  
**Waste Disposal:** Dispose absorbed material in accordance with federal, provincial and local government regulations.  
**Handling Procedures And Equipment:** Avoid skin and eye contact. Avoid contact with aluminum and zinc.  
**Storage Requirements:** Store in cool, dry area. Avoid temperatures above 40 deg C.  
**Special Shipping Information:**  
**Transportation:** Corrosive Liquid Acidic, Inorganic NOS  
(Aluminum Chloride Hydroxide Sulphate)  
**Class:** 8  
**Pkg. Group:** III  
**P.I.N./Un:** 3264 5 LT and under Ltd Qty

## SECTION VIII FIRST AID MEASURES

**Skin:** Wash thoroughly with soap and water.  
**Eye:** Flush eyes with plenty of water for 15 minutes. Seek medical attention.  
**Inhalation:** No expected damage due to low volatility. Remove person to fresh air if mists are irritating.  
**Ingestion:** Drink 2 or 3 glasses of water to dilute. Immediately contact a physician. Do not induce vomiting.

## SECTION IX PREPARATION DATE OF M.S.D.S.

**Prepared By (Group, Department, Etc.):** Plant Chemist **Telephone:** (905) 332-6626  
**Preparation Date:** May 20, 1998  
**Date Of Latest Revision/Review:** January 10, 2009

### Additional Notes Or References:

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