

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, 2008

Additional Notes Or References:

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