SECTION 1

MATERIAL NAME / IDENTIFIER

C-Clear	WHMIS: E
Manufacturer's Name: Street Address: City: Postal Code:	CAPO INDUSTRIES LTD 1200 CORPORATE DRIVE BURLINGTON, ONTARIO 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.

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	e hydroxide sulphate	39290-78-3	33 – 40
SECTION 4		FIRST AID MEAS	SURES
Inhalation:	No expected damage c	lue to low volatility. F	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 minut	es. Seek medical attention.
Ingestion:	Drink 2 or 3 glasses of	water to dilute. Do n	ot induce vomiting. Contact a physician immediately.
Note to physicians	None		

FIRE – FIGHTING MEASURES
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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.

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

SECTION 7

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 Liqui	d <u>X</u>	Solid
Odour & Appearance:	Clear blue, odourl	ess	
Odour Threshold (ppm):	Not applicable		
Flammability:	Yes	No <u>X</u>	
If Yes, Under Which Conditions?:			
Auto Ignition Temperature (Celsius):	Not applicable		
Upper Explosion Limit (% By Volume): Not applicable		
Lower Explosion Limit (% By Volume	e): Not applicable		
Decomposition Temp (°C)	Not available		
Specific Gravity:	1.18 – 1.38		
Viscosity:	Not available		

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	<u>X</u>	Νο
If No, Under Which Conditions?:			
Incompatibility To Other Substances:	Yes	<u>x</u>	No
If So, Which Ones:	Strong oxidizers, strong reducing agents. Reacts with aluminum or		
	zinc to f	orm hydr	ogen 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		

Exposure (Limits):Not establishedIrritancy of MaterialSkin and eye irritant.Sensitization of MaterialNone knownSynergistic MaterialsNone 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/lLC50 96 h Rainbow trout (Oncorhyncus 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

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

	N (49CFR 172.101, 172.102)
Proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride hydroxide sulfate)
Class:	8
Packing group:	III
UN number:	3264
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
CANADA	not required to be listed on the DSL.
WHMIS:	E
	E
USA	All components of this product are included on the TSCA Chemical Inventory or are not
USA	required to be listed on the TSCA Chemical Inventory.
	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.
	Substances (LINECS) of are not required to be listed of LINECS.
SECTION 16	OTHER INFORMATION
Prepared By (Group, Dep	artment, Etc.): Quality Control Telephone: (905) 332-6626
Trepared by (Group, Dep	
Preparation Date: Date Revised:	January 1, 1996 December 1, 2020

Additional Notes Or References:

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