CHEMTRADE

Hyper+lon® 1000

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Version: 5.0

Revision Date: 02/14/2019 Date of Issue: 05/03/2015

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Hyper+Ion® 1000 Intended Use of the Product

Use Of The Substance/Mixture: Municipal and industrial water and wastewater treatment for the removal of turbidity, color, suspended solids and phosphorus. Sludge compaction and volume reduction. Lagoon treatment. Oily wastewater clarification and dissolved air flotation. Emulsion breaking. Paper machine pitch control.

Name, Address, and Telephone of the Responsible Party

Manufacturer

CHEMTRADE LOGISTICS INC. 155 Gordon Baker Road Suite 300

Toronto, Ontario M2H 3N5 For SDS Info: (416) 496-5856 www.chemtradelogistics.com

Emergency Telephone Number

Emergency Number : Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300

INTERNATIONAL: +1-703-741-5970

Chemtrade Emergency Contact: (866) 416-4404

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification

Met. Corr. 1 H290 Acute Tox. 4 (Oral) H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 2 H401

Full text of hazard classes and H-statements: see section 16

<u>Label Elements</u> GHS Labeling

Hazard Pictograms





Signal Word : Danger

Hazard Statements : H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H401 - Toxic to aquatic life.

Precautionary Statements : P234 - Keep only in original container.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

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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.

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 section 4 on this SDS).

P330 - Rinse mouth.

P363 - Wash contaminated clothing before reuse.

P390 - Absorb spillage to prevent material damage.

P405 - Store locked up.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown acute toxicity

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Water	(CAS-No.) 7732-18-5	70 - 90	Not classified
Aluminum chloride	(CAS-No.) 7446-70-0	10 - 30 ⁺	Met. Corr. 1, H290
			Acute Tox. 4 (Oral), H302
			Skin Corr. 1B, H314
			Eye Dam. 1, H318
			Aquatic Acute 2, H401

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Using proper respiratory protection, immediately move the exposed person to fresh air. Keep at rest and in a position comfortable for breathing. Seek medical attention immediately. Symptoms may be delayed.

Skin Contact: Immediately flush skin with plenty of water for at least 30 minutes. Remove contaminated clothing. Obtain medical attention. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth thoroughly with water. Do NOT induce vomiting. Seek medical attention immediately.

Most Important Symptoms and Effects Both Acute and Delayed

General: Harmful if swallowed. Causes severe skin burns and eye damage. Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation). May cause damage to organs (central nervous system) through prolonged or repeated exposure (Oral).

Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns. Corrosive to mucus membranes. Corrosive to the respiratory tract. Symptoms may be delayed.

Skin Contact: Causes severe skin burns.

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^{*}Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

⁺The actual concentration of the ingredient(s) is withheld as a trade secret in accordance with Regulations Amending the Hazardous Products Regulations (HPR) SOR/2018-68 and 29 CFR 1910.1200.

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Eye Contact: Causes serious eye damage.

Ingestion: Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Swallowing a small quantity of this material will result in serious health hazard.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Keep upwind. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Hydrogen chloride.

Other Information: Do not allow run-off from fire fighting to enter drains or water sources.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all unnecessary exposure. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Keep upwind.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area. Eliminate ignition sources.

Environmental Precautions

Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Ventilate area. Cautiously neutralize spilled liquid. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Collect absorbed material and place into a sealed, labelled container for proper disposal. Clean up spills immediately and dispose of waste safely. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke in areas where product is used.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Observe all regulations and local requirements regarding storage of containers.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Storage areas should be periodically checked for corrosion and integrity. Detached outside storage is preferable.

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Incompatible Materials: Strong bases. Strong oxidizers. Alkalis. Metals.

Specific End Use(s)

Municipal and industrial water and wastewater treatment for the removal of turbidity, color, suspended solids and phosphorus. Sludge compaction and volume reduction. Lagoon treatment. Oily wastewater clarification and dissolved air flotation. Emulsion breaking. Paper machine pitch control.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective goggles. Protective clothing. Face shield. Insufficient ventilation: wear respiratory protection.



Specific Gravity









Materials for Protective Clothing: Acid-resistant clothing.

Hand Protection: Impermeable protective gloves.

Eye Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing. Chemical resistant suit. Rubber apron, boots.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Consumer Exposure Controls: Do not eat, drink or smoke during use

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance : Colorless to yellow colored

pH : <2

Evaporation Rate Not available **Melting Point** Not available **Freezing Point** -30 °C (-22 °F) **Boiling Point** Not available **Flash Point** Not applicable **Critical Temperature** Not applicable **Auto-ignition Temperature** Not applicable **Decomposition Temperature** Not available Flammability (solid, gas) Not applicable **Lower Flammable Limit** Not applicable **Upper Flammable Limit** Not applicable **Vapor Pressure** Not available Relative Vapor Density at 20°C Not available **Relative Density** Not available

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Solubility : 100%

Partition Coefficient: N-Octanol/Water : Not available Viscosity : Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. **Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong bases. Strong oxidizers. Alkalis. Metals.

Hazardous Decomposition Products: Corrosive vapors. Acrid smoke and irritating fumes. Hydrogen chloride.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Oral: Harmful if swallowed.

Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

Hyper+lon® 1000	
ATE (Oral)	1,335.74 mg/kg body weight

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

pH: < 2

Eye Damage/Irritation: Causes serious eye damage.

pH: < 2

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Effects After Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

Corrosive to mucus membranes. Corrosive to the respiratory tract. Symptoms may be delayed.

Symptoms/Effects After Skin Contact: Causes severe skin burns.

Symptoms/Effects After Eye Contact: Causes serious eye damage.

Symptoms/Effects After Ingestion: Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and

gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Aluminum chloride (7446-70-0)	
LD50 Oral Rat	370 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life.

Aluminum chloride (7446-70-0)	
LC50 Fish 1	5.31 - 7.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 1	3.9 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	6.2 - 11.9 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

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Persistence and Degradability Not available

Bioaccumulative Potential

Aluminum chloride (7446-70-0)	
BCF Fish 1	(no bioaccumulation)

Mobility in Soil Not available

Other Adverse Effects Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Sewage Disposal Recommendations: Do not dispose of waste into sewer. Do not empty into drains; dispose of this material and its container in a safe way.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

TRANSPORTATION	DOT	TDG	IMDG	IATA	
CLASSIFICATION					
Identification Number	UN2581	UN2581	UN2581	UN2581	
Proper Shipping Name	ALUMINUM CHLORIDE,	ALUMINUM CHLORIDE	ALUMINIUM CHLORIDE	ALUMINIUM	
	SOLUTION	SOLUTION	SOLUTION	CHLORIDE	
				SOLUTION	
Transport Hazard	8	8	8	8	
Class(es)					
	CORROSIVE		*	8	
Packing Group	III	III	III	III	
Environmental Hazards	Marine Pollutant : No	Marine Pollutant : No	Marine Pollutant : No	Marine Pollutant: N/A	
Emergency Response	ERG Number: 154	ERAP Index: Not applicable	EMS: F-A, S-B	ERG code (IATA): 8L	
Additional Information	Not applicable	Not applicable	Not applicable	Not applicable	

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Chemical Name (CAS No.)	CERCLA RQ	EPCRA 304 RQ	SARA 302 TPQ	SARA 313
Aluminum chloride (7446-70-	Not applicable	Not applicable	Not applicable	No
0)				

SARA 311/312

Hyper+lon® 1000
Immediate (acute) health hazard

US TSCA Flags Not present

US State Regulations

California Proposition 65

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity	
Aluminum chloride (7446-70-0)	No	No	No	No	

State Right-To-Know Lists

AL '	70.0
Aluminum chloride (7446-	- /()-())
/ cinoriae (/	7.0.0

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- U.S. Massachusetts Right To Know List Yes
- U.S. New Jersey Right to Know Hazardous Substance List Yes
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List No
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances No
- U.S. Pennsylvania RTK (Right to Know) List Yes

Canadian Regulations

Aluminum chloride (7446-70-0)

Listed on the Canadian DSL (Domestic Substances List)

Not listed on the Canadian NDSL (Non-Domestic Substances List)

International Inventories/Lists

Chemical Name (CAS No.)	Australia AICS	Turkey CICR	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EU NLP	Mexico INSQ
Aluminum chloride (7446-70-0)	Yes	Yes	Yes	Yes	No	No	No	Yes
Chemical Name (CAS No.)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCL	Japan PRTR	Philippines PICCS	New Zealand NZIOC	US TSCA
Aluminum chloride (7446-70-0)	Yes	Yes	No	No	No	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 02/14/2019

Revision Summary

Section	Change	Date Changed
2	Information Update	02/14/2019
3	Information Update	02/14/2019

Other Information

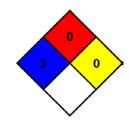
: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (Oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life

NFPA 704

NFPA Health Hazard : 3 NFPA Fire Hazard : 0 NFPA Reactivity Hazard : 0



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HMIS Rating

Health : 3 Flammability : 0 Physical : 0

PPE See Section 8

Abbreviations and Acronyms

AICS - Australian Inventory of Chemical Substances

ACGIH – American Conference of Governmental Industrial Hygienists

AIHA - American Industrial Hygiene Association

ATE - Acute Toxicity Estimate BCF - Bioconcentration factor BEI - Biological Exposure Indices (BEI)

CAS No. - Chemical Abstracts Service number

CERCLA RQ - Comprehensive Environmental Response, Compensation, and

Liability Act - Reportable Quantity

CICR - Turkish Inventory and Control of Chemicals

DOT - 49 CFR - US Department of Transportation - Code of Federal

Regulations Title 49 – Transportation. EC50 - Median effective concentration ECL - Korea Existing Chemicals List

EINECS - European Inventory of Existing Commercial Chemical Substances

ELINCS - European List of Notified Chemical Substances EmS - IMDG Emergency Schedule Fire & Spillage

ENCS - Japanese Existing and New Chemical Substances Inventory

EPA - Environmental Protection Agency

EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know-Act – Reportable Quantity ERAP Index – Emergency Response Assistance Plan Quantity Limit

ErC50 - EC50 in Terms of Reduction Growth Rate

 ${\sf ERG\ code\ (IATA)-Emergency\ Response\ Drill\ Code\ as\ found\ in\ the\ International}$

Civil Aviation Organization (ICAO)

ERG No. - Emergency Response Guide Number HCCL - Hazard Communication Carcinogen List HMIS – Hazardous Materials Information System IARC - International Agency for Research on Cancer

IATA - International Air Transport Association – Dangerous Goods Regulations

IDLH - Immediately Dangerous to Life or Health

IECSC - Inventory of Existing Chemical Substances Produced or Imported in

China

IMDG - International Maritime Dangerous Goods Code INSQ - Mexican National Inventory of Chemical Substances

ISHL - Japan Industrial Safety and Health Law

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level LOEC - Lowest-observed-effect Concentration Log Pow - Octanol/water Partition Coefficient

NFPA 704 – National Fire Protection Association - Standard System for the

Identification of the Hazards of Materials for Emergency Response NIOSH - National Institute for Occupational Safety and Health

NLP - Europe No Longer Polymers List

NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration NZIOC - New Zealand Inventory of Chemicals

OEL - Occupational Exposure Limits

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limits

PICCS - Philippine Inventory of Chemicals and Chemical Substances PDSCL - Japan Poisonous and Deleterious Substances Control Law

PPE – Personal Protective Equipment

PRTR - Japan Pollutant Release and Transfer Register

REL - Recommended Exposure Limit

SADT - Self Accelerating Decomposition Temperature SARA - Superfund Amendments and Reauthorization Act

SARA 302 - Section 302, 40 CFR Part 355

SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories

SARA 313 - Section 313, 40 CFR Part 372 SRCL - Specifically Regulated Carcinogen List

STEL - Short Term Exposure Limit

SVHC – European Candidate List of Substance of Very High Concern TDG – Transport Canada Transport of Dangerous Goods Regulations

TLM - Median Tolerance Limit TLV - Threshold Limit Value TPQ - Threshold Planning Quantity

TSCA – United StatesToxic Substances Control Act

TWA - Time Weighted Average

WEEL - Workplace Environmental Exposure Levels

Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA'S "Right to Know" (29 CFR 1910.1200) and Canada's WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.



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