

**Section 1. Identification****Product identifier****Product Identity****Other means of identification****Relevant identified uses of the substance or mixture and uses advised against**

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. Retention and drainage aid, pitch control, and neutral size bonding agent for paper machines operating in the pH range of 6.0 to 7.8. Point of application to the paper machine is critical in obtaining maximum benefit. This product may be used on fourdrinier and cylinder machines, as well as twin wire formers. It is effective for a variety of paper and board grades. **Restrictions on Use:** Unknown

**Details of the supplier of the safety data sheet****Company Name**

Chemtrade Logistics Inc. (Canada)  
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Toronto, Ontario M2H 3N5  
(416) 496-5856

Chemtrade Logistics Inc. (US)  
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Chemtrade Emergency Contact: (866) 416-4404 (US and Canada)

CHEMTREC +1-800-424-9300

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

For SDS Info: (416) 496-5856

[www.chemtradelogistics.com](http://www.chemtradelogistics.com)

**Customer Service:**

**Section 2. Hazard(s) identification****Classification of the substance or mixture**

Metal corrosion;H290	May be corrosive to metals.
Serious eye damage / eye irritation, category 1;H318	Causes serious eye damage.

**Label elements****Danger**

H290 May be corrosive to metals.

H318 Causes serious eye damage.

**[Prevention]:**

P234 Keep only in original packaging.

P280 Wear protective gloves, eye protection, and face protection.

**[Response]:**

P305+351+338 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, doctor or physician.

P390 Absorb spillage to prevent material damage.

**[Storage]:**

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

**[Disposal]:**

No GHS disposal statements

**Other hazards**

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the Organisation for Economic Co-operation and Development (OECD) list of Per- and Polyfluoroalkyl Substances (PFASs).

### Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Aluminum Chloride, basic CAS Number: 1327-41-9 Synonyms: No available information	30 - 60	Metal corrosion;H290 Serious eye damage / eye irritation, category 1;H318	No data available

The actual concentration or concentration range is withheld as a trade secret.

\*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

The specific chemical identity and/or exact percentage of composition are withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

### Section 4. First aid measures

#### Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 30 minutes, holding the eyelids apart and seek medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Drench affected area with water for at least 30 minutes. Obtain medical attention if irritation develops or persists.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Causes serious eye damage. <b>Acute Health Effects:</b> the substance causes serious eye damage. EYE: Contact causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva with redness, pain, swelling, blurred vision, and severe burns (Immediate). No delayed effects from eye contact are expected. No chronic effects from eye contact are known. SKIN: May cause irritation. Symptoms may include redness, pain, and irritation. (Immediate). No delayed effects from skin contact are expected. No chronic effects from skin contact are known. INHALATION: May be corrosive to the respiratory tract. Prolonged exposure may cause irritation of the upper respiratory passages. (Immediate). May cause delayed
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pulmonary edema. No chronic effects from inhalation are known.  
**INGESTION:** Ingestion may cause adverse effect. No chronic effects from ingestion are known.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** If exposed or concerned, get medical advice and attention.  
See section 2 for further details.

**Eyes** Causes serious eye damage.

**Chronic effects** None expected under normal conditions of use.

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable extinguishing media:** Do not use water jet, or heavy water stream. Use of heavy stream of water may spread fire.

### Special hazards arising from the substance or mixture

Hazardous decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Keep only in original packaging.

### Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean up immediately after fire. No smoking.

**Fire Hazard:** Product is not considered flammable but may burn at higher temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Corrosive to steel and aluminum. Contact with metals may evolve flammable hydrogen gas. **Firefighting Instructions:** Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. **Exercise caution when fighting any chemical fire.** Under fire conditions, hazardous fumes will be present.

**Hazardous reactions** will not occur under normal conditions.

**Hazardous Combustion Products:** Hydrogen chloride, aluminum oxide.

**Other Information:** Do not allow run-off from firefighting to enter drains or water courses.

**ERG Guide No.** 154

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**General Measures:** Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid contact with eyes, skin and clothing. Provide

adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See Section 8.

Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

### **Environmental precautions**

Prevent entry to sewers and public waters. Avoid release to environment.

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

### **Methods and material for containment and cleaning up**

Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

**Methods for Clean up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area. Equip cleanup crew with proper protection.

## **Section 7. Handling and storage**

### **Precautions for safe handling**

Handle containers carefully to prevent damage and spillage.

Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

### **Conditions for safe storage, including any incompatibilities**

Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

Comply with applicable regulations.

**Incompatible materials:** Metals. Strong acids, strong bases, strong oxidizers.

See section 2 for further details. - [Storage]:

**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. Retention and drainage aid, pitch control, and neutral size bonding agent for paper machines operating in the pH range of 6.0 to 7.8. Point of application to the paper machine is critical in obtaining maximum benefit. This product may be used on fourdrinier and cylinder machines, as well as twin wire formers. It is effective for a variety of paper and board grades. **Restrictions on Use:** Unknown

**Section 8. Exposure controls / personal protection****Control parameters****Exposure Limits**

CAS No.	Ingredient	Source	Value
1327-41-9	Aluminum Chloride, basic	ACGIH	No Established Limit
		OSHA	No Established Limit
		NIOSH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit

**Exposure controls****Respiratory**

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Eyes**

Chemical safety goggles and face shield.

<b>Skin</b>	Wear chemically resistant protective gloves. Avoid skin contact. Wear protective gloves. Wear suitable protective clothing.
<b>Engineering Controls</b>	<b>Materials for Protective Clothing:</b> Chemically resistant materials and fabrics. <b>Exposure Controls Appropriate Engineering Controls:</b> Emergency eyewash fountains and safety showers 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.
<b>Other Work Practices</b>	Put on appropriate personal protective equipment. Chemically compatible gloves, protective clothing, and chemical resistant safety goggles and face shield. If insufficient ventilation: wear respiratory protection. When line breaking and where there is higher exposure potential, additional protective clothing may be required. A site-specific PPE hazard assessment is recommended and should be reviewed for any additional requirements that may be needed for specific tasks. Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours. Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details). Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

## Section 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical State</b>	liquid
<b>Color</b>	Colorless
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No available information
<b>Melting point / freezing point</b>	<-10 °C (14°F)
<b>Initial boiling point and boiling range</b>	No available information
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
<b>Flash Point</b>	No available information
<b>Auto-ignition temperature</b>	No available information
<b>Decomposition temperature</b>	No available information

<b>pH</b>	2.5 - 4.0
<b>Viscosity (cSt)</b>	No available information
<b>Solubility in Water</b>	Completely Soluble in water.
<b>Partition coefficient n-octanol/water (Log Kow)</b>	No available information
<b>Vapour pressure (Pa)</b>	No available information
<b>Relative Density</b>	No available information
<b>Vapour Density</b>	No available information
<b>Evaporation rate (Ether = 1)</b>	No available information
<b>Specific Gravity</b>	1.30 - 1.36
<b>Other information</b>	
No other relevant information.	

**Section 10. Stability and reactivity****Reactivity**

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**

Direct sunlight, extremely high or low temperatures, and incompatible materials.

**Incompatible materials**

Metals. Strong acids, strong bases, strong oxidizers.

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicological information****Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm

Product Acute Toxicity Estimates	NA	NA	NA	NA	NA
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Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Aluminum Chloride, basic - (1327-41-9)	>2,000.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available.	No data available.	No data available.

### Carcinogen Data

CAS No.	Ingredient	Source	Value
1327-41-9	Aluminum Chloride, basic	IARC	No
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

### Possible routes of entry:

All routes of entry possible.

### Symptoms and effects, both acute and delayed:

Causes serious eye damage.

**Acute Health Effects:** the substance causes serious eyes damage.

**EYE:** Contact causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva with redness, pain, swelling, blurred vision, and severe burns (Immediate). No delayed effects from eye contact are expected. No chronic effects from eye contact are known.

**SKIN:** May cause irritation. Symptoms may include redness, pain, and irritation. (Immediate). No delayed effects from skin contact are expected. No chronic effects from skin contact are known.

**INHALATION:** May be corrosive to the respiratory tract. Prolonged exposure may cause irritation of the upper respiratory passages. (Immediate). May cause delayed pulmonary edema. No chronic effects from

inhalation are known.

**INGESTION:** Ingestion may cause adverse effect. No chronic effects from ingestion are known.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** If exposed or concerned, get medical advice and attention.

**Eyes** Causes serious eye damage.

**Chronic effects** None expected under normal conditions of use.

## Section 12. Ecological information

### Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Aluminum Chloride, basic - (1327-41-9)	86.00, Danio rerio	201.00, Daphnia magna	14.00, Pseudokirchnerella subcapitata

### Persistence and degradability

There is no data available on the preparation itself.

### Bioaccumulative potential

No available information

### Mobility in soil

No available information

### Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

### Other adverse effects

No available information

## Section 13. Disposal considerations

### Waste treatment methods

Dispose of waste material in accordance with all local, regional, federal, provincial, state, territorial and international regulations.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

## Section 14. Transport information

**DOT (Domestic Surface Transportation):** This product is excepted from HM regulation when transported in compliance with 49CFR 173.154(d).

**Materials corrosive to aluminum or steel only.** Except for a hazardous substance, a hazardous waste, or a marine pollutant, a material classed as a Class 8, Packing Group III, material solely because of its corrosive effect.

- (1) On aluminum is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material; or
- (2) On steel is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a bulk packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material.



**Classification Method:** Classified as per Part 2, Sections 2.1-2.8 of the Transportation of Dangerous Goods Regulations.

#### DOT (Domestic Surface Transportation)

<b>UN number</b>	UN3264
<b>UN proper shipping name</b>	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (contains polyaluminum hydroxychloride), 8, III
<b>Transport hazard class(es)</b>	8
<b>Sub Class</b>	Not Applicable
<b>Packing group</b>	III

#### TDG (Domestic Surface Transportation)

<b>UN number</b>	UN3264
<b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s. (contains polyaluminum hydroxychloride)
<b>Transport hazard class(es)</b>	8
<b>Sub Class</b>	Not Applicable
<b>Packing group</b>	III

#### IMO / IMDG (Ocean Transportation)

<b>UN number</b>	UN3264
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<b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s. (contains polyaluminum hydroxychloride)
<b>Transport hazard class(es)</b>	8
<b>Sub Class</b>	Not Applicable
<b>Packing group</b>	III

<b>ICAO/IATA</b>	
<b>UN number</b>	UN3264
<b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s. (contains polyaluminum hydroxychloride)
<b>Transport hazard class(es)</b>	8
<b>Sub Class</b>	Not Applicable
<b>Packing group</b>	III

**Environmental hazards**

IMDG Marine Pollutant: No;

**Special precautions for user**

No available information

**Section 15. Regulatory information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act (TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

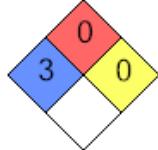
**NFPA Ranking**

Health (blue) :3

Fire (red) :0

Reactivity (yellow) :0

Special (white) :--


**Toxic Substance Control Act (TSCA)**

Aluminum Chloride, basic (Present)

Water

**CERCLA Chemicals and RQs:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Canadian Domestic Substance List (DSL):**

Aluminum Chloride, basic

Water

**Canadian Non-Domestic Substance List (NDSL):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Chemical Name (CAS Number)	US TSCA	Australia AICS	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EN NLP	Mexico INSQ
Aluminum Chloride, basic (1327-41-9)	Yes	Yes	Yes	Yes	No	No	No	Yes

Chemical Name (CAS Number)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCL	Japan PRTR 1	Japan PRTR 2	Philippines PICCS	New Zealand NZIOC
Aluminum Chloride, basic (1327-41-9)	Yes	Yes	No	No	No	No	Yes	Yes

**Section 16. Other information**

**Revision Date** 09/25/2025

**Revision Number** 4.1

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products.

Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H290 May be corrosive to metals.

H318 Causes serious eye damage.

**Disclaimer:** The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.