



Suite 450  
One North Shore Center  
12 Federal Street  
Pittsburgh, PA 15212

## Safety Data Sheet

# KR-B3070

### 1. IDENTIFICATION

<b>Product name</b>	KR-B3070
<b>Description</b>	Water and Wastewater treatment coagulant
<b>Product class</b>	Waste treatment
<b>Supplier address</b>	Suite 450 One North Shore Center 12 Federal Street Pittsburgh, PA 15212
<b>Telephone numbers</b>	
<u>Company Phone Number</u>	(412) 321-9800
<u>Emergency Telephone</u>	CHEMTREC 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

<b>OSHA Regulatory Status</b>	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Hazard classification</b>	Skin Corrosion, Category 1 Eye Irritation, Category 1 Corrosive to Metals, Category 1
<b>Signal word</b>	Danger
<b>Hazard statements</b>	Causes severe skin burns and eye damage May be corrosive to metals
<b>Pictograms of related hazards</b>	



#### Precautionary statements

##### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

Keep only in original container

#### Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Absorb spillage to prevent material damage.

#### Storage

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

#### Disposal

Dispose of contents or container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
Trade secret Ingredient	Proprietary	45-55

*The exact percentage (concentration) of composition has been withheld as a trade secret.*

### 4. FIRST-AID MEASURES

#### **Eye contact**

Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical advice immediately.

#### **Skin contact**

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

#### **Ingestion**

Seek medical attention immediately. Give large amounts of water to drink. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

#### **Inhalation**

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Most important symptoms and effect, both acute and delayed**

Possible eye, skin, and respiratory tract irritation or burns.

Chronic Effects: May aggravate existing skin, eye, and lung conditions. Persons with kidney disorders have an increased risk from exposure based on general information found on aluminum salts.

**Indication of any immediate medical attention and special treatment needed**

Note to physicians Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use of demulcents. Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water fog, Carbon Dioxide, Foam, Dry Chemical.

**Unsuitable extinguishing media**

No information available

**Protective equipment and precautions for firefighters**

Product is a water solution and nonflammable. In a fire, this product may build up pressure and rupture a sealed container; cool exposed containers with water spray. Use self-contained breathing apparatus in confined areas; avoid breathing mist or spray. Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

**Specific hazards**

May produce hazardous fumes or hazardous decomposition products.

**Hazardous combustion products**

May produce hazardous fumes or hazardous decomposition products.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear adequate personal protective clothing and equipment. Approved breathing apparatus may be necessary.

**Methods for clean-up**Small spills

Prevent further leakage or spillage if safe to do so. Build dikes as necessary to contain flow of large spills.

Large spills

Clear spills immediately. For small spills, use soda ash or lime to neutralize, an inert material to absorb, or wash product to a chemical sewer. Place contaminated materials into containers and store in a safe place to await proper disposal. Caution: Use of soda ash or lime may generate carbon dioxide gas. Provide adequate ventilation to spill area.



**7. HANDLING AND STORAGE**

<b>Advice on safe handling</b>	Keep container closed when not in use. Keep away from heat and open flame. Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, gloves, and protective clothing when handling. Wash thoroughly after handling. Avoid breathing mist or vapors. Use with adequate ventilation and employ respiratory protection where mist or spray may be generated. Do not take internally. FOR INDUSTRIAL USE ONLY..
<b>Storage conditions</b>	Store in a cool, dry place away from heat.
<b>Suitable materials of construction</b>	Do not store in unlined metal containers. Product may slowly corrode iron, brass, copper, aluminum, mild steel, and stainless steel.
<b>Incompatible products</b>	Alkalis.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Control parameters</b>	1Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Eye/face protection</b>	Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).
<b>Skin protection</b>	Standard work clothing and work shoes.
<b>Respiratory protection</b>	If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134.
<b>Engineering controls</b>	Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.
<b>General hygiene considerations</b>	Take off contaminated clothing and wash before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>pH</b>	1.5-2.5
<b>Appearance</b>	Colorless to yellow
<b>Odor</b>	No appreciable odorless
<b>Odor Threshold</b>	No information available

Melting/freezing point	-12 C / 10 F
Initial boiling point/boiling range	104 C / 220 F
Flash point	No applicable
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No applicable
Vapor pressure	No information available
Vapor density	No information available
VOC content	No information available
Specific gravity	1.311–1.331
Solubility	Soluble below pH 4
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	No applicable
Decomposition temperature	No information available
Viscosity	5-15 cP

## 10. STABILITY AND REACTIVITY

Reactivity	No data available.
Chemical stability	Stable under normal conditions of storage and handling.
Hazardous polymerization	No
Conditions to avoid	None
Incompatibilities	Alkalis
Hazardous decomposition products	Thermal decomposition may release toxic and/or hazardous gases such as Cl <sub>2</sub> and HCl.

## 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Skin, eyes, ingestion, inhalation

### Acute toxicity

Test Material	Parameter	Result
Product	LD <sub>50</sub> , Oral (rat)	---
	LD <sub>50</sub> , Dermal (rabbit)	---
	LD <sub>50</sub> , Inhalation (rabbit)	---
Component – Trade secret ingredient	LD <sub>50</sub> , Oral (rat)	>2000 mg/kg
	LD <sub>50</sub> , Dermal (rabbit)	---

	LD <sub>50</sub> , Inhalation (rabbit)	---
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**Acute symptoms and effects**

<b>Eye</b>	Based on pH, this product is expected to cause severe eye irritation, possibly resulting in burns and eye damage. Prolonged exposure to Aluminum salts may cause conjunctivitis.
<b>Skin</b>	Prolonged and/or repeated contact will cause severe skin irritation and burns.
<b>Ingestion</b>	Harmful if swallowed. May cause burns of the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Inhalation</b>	Inhalation of mist or spray may irritate respiratory tract and may cause burns and difficulty breathing.
<b>Reproductive effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Mutagenicity</b>	No information available
<b>Embryotoxicity</b>	No information available
<b>Sensitization to product</b>	No information available
<b>Synergistic products</b>	No information available
<b>Carcinogenicity</b>	This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or OSHA.
<b>Chronic</b>	No information available

**Numerical measures of toxicity – Product information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4004 mg/kg

**12. ECOLOGICAL INFORMATION**

Test Material	Parameter	Result
Product	LD (24 hour static Fresh Water) Oncorhynchus kisutch, Coho salmon, Silver salmon <sup>1</sup>	10 mg/L
	LD (24 hour static Fresh Water) Ptychocheilus oregonensis, Northern squawfish <sup>1</sup>	10 mg/L
	LD (24 hour static Fresh Water) Oncorhynchus tshawytscha, Chinook Salmon <sup>1</sup>	10 mg/L



	LC50 (48 hour static) Ceriodaphnia dubia <sup>2</sup>	114.9 mg/L
	48 hr LC50 (Daphnia magna)	461.34 mg/L
	96 hr LC50 (Pimephales promelas)	190.5 mg/L

**Persistence** No information available

**Bioaccumulative potential** No information available

**Mobility** No information available

**PBT and vPvB assessment** No information available

**Other information** <sup>1</sup>Data from USEPA ECOTOX database search, reference: Lethal Effects of 1888 Chemicals upon Four Species of Fish From Western North America, MacPhee, C. and R. Ruelle, Univ of Idaho Forest Wildlife Range Experimental Station Bull. No 3, Moscow, ID 112 p.

<sup>2</sup>Generaed from test conducted by SEAUS Testing Laboratories Nov., 1993 using EPA/600-4-90/027

### 13. DISPOSAL CONSIDERATIONS

**Disposal** Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

**RCRA** Is the unused product a RCRA hazardous waste if discarded? (Yes/No) **YES** EPA Hazardous Waste Code: D002 (corrosivity)

### 14. TRANSPORT INFORMATION

#### US Department of Transportation (DOT)

**UN Number** UN 3264

**Proper shipping name** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum chloride solution)

**Primary hazard class/division** 8

**Packing group** III

**ERG Number** 154

#### TDG (Canadian) Classification

**UN Number** UN3264

**Proper shipping name** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum chloride solution)

Primary hazard class/division	8
Packing group	III
Label	Corrosive
<b>IMDG Classification</b>	
UN Number	UN3264
Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum chloride solution)
Hazard class	8
EmS	F-A; S-B
Packing group	III
<b>IATA/ICAO Classification</b>	
UN Number	UN3264
Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum chloride solution)
Primary hazard class/division	8
Packing group	III
ERG Code	8L
Harmonized Tariff Number	2827.32

## 15. REGULATORY INFORMATION

### International Inventories

#### **TSCA (United States)**

All ingredients are on the inventory or exempt from listing

#### **Australia (AICS)**

All ingredients are on the inventory or exempt from listing

#### **Canada (DSL)**

All ingredients are on the inventory or exempt from listing

#### **Canada (NDSL)**

None of the ingredients are on the inventory.

#### **China (IECSC)**

All ingredients are on the inventory or exempt from listing

#### **EINECS (European Inventory of Existing Chemical Substances)**

All ingredients are on the inventory or exempt from listing

#### **ELINCS (European List of Notified Chemical Substances)**

None of the ingredients are on the inventory.

#### **ENCS (Japan)**

All ingredients are on the inventory or exempt from listing

#### **South Korea (KECL)**

All ingredients are on the inventory or exempt from listing

#### **Philippines (PICCS)**

All ingredients are on the inventory or exempt from listing



**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
AICS - Australian Inventory of Chemical Substances  
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
IECSC - China Inventory of Existing Chemical Substances  
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU  
List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances

**U.S. Federal Regulations****CWA (Clean Water Act)**

**This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)**

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Polyaluminum Chloride 1327-41-9

Minnesota Hazardous Substance List	Present
Pennsylvania Right to Know List	Present

**16. OTHER INFORMATION****HMIS Ratings**

Health—2; Flammability—0; Reactivity—0

**NFPA Codes**Health—2; Flammability—0; Reactivity—0;  
Special Hazard—None**Hazard Rating Scale**Minimal—0; Slight—1; Moderate—2; Serious—3;  
Severe—4**SDS Issue Date**

December 3, 2018

**Revision Date**

Version 1

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.*