

# SAFETY DATA SHEET

Revision date 2015-05-14

Revision number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product name CA 81120

### Other means of identification

Product code CA 81120

Synonyms Water And Wastewater Treatment Coagulant/Flocculant

### Recommended use of the chemical and restrictions on use

Recommended use [RU] No information available

Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier: Chem-Aqua      Manufactured by: GEO Specialty Chemicals, Inc.  
P O Box 152170      9213 Arch Street Pike  
Irving, TX 75015      Little Rock, AR 72206  
972 438 0435

24 Hour Emergency Phone Number CHEMTREC: (800) 424-9300  
Outside USA - +1 (703) 527-3887 collect calls accepted

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Corrosive to metals	Category 1

### GHS Label elements, including precautionary statements

#### EMERGENCY OVERVIEW

Physical state  
liquid

Color  
colorless to yellow

Appearance  
clear to slightly hazy

Odor  
no appreciable odor

**WARNING****Hazard statements**

Causes skin irritation  
Causes serious eye irritation  
May be corrosive to metals

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep only in original container

**Precautionary Statements - Response**

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

If eye irritation persists: Get medical advice/attention

**IF ON SKIN:** Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store in corrosive resistant container with a resistant inner liner

**Other information**

- Harmful to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No	weight-%	TRADE SECRET
Trade Secret Ingredient	PROPRIETARY	35 - 45%	

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

**4. FIRST AID MEASURES****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. Get medical attention if irritation develops and persists.

**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 effects, both acute and delayed****Acute effects**

Possible eye, skin and respiratory tract irritation.

**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

**Extinguishing media****Suitable extinguishing media**

Water Spray, Carbon Dioxide, Foam, Dry Chemical.

**Extinguishing media which must not be used for safety reasons**

No information available

**Special hazards arising from the substance or mixture****Special Hazard**

May produce hazardous fumes or hazardous decomposition products.

**Advice for firefighters****Firefighting measures**

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.

**Special protective equipment for firefighters**

Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

**Explosion data****Sensitivity to Mechanical Impact**

None.

**Sensitivity to Static Discharge**

None.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures****Personal precautions**

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

**Environmental precautions**

**Environmental precautions**

Do not allow liquid to enter streams or waterways.

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

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

**Methods for cleaning up**

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

**Precautions for safe handling****Advice on safe handling**

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 vapor or mist

Use with adequate ventilation and employ respiratory protection where mist or spray may be generated.

FOR INDUSTRIAL USE ONLY.

**Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed when not in use.

Store in a cool, dry place away from direct heat.

Do not store in unlined metal containers.

Product may slowly corrode iron, brass, copper, aluminum, mild steel, and stainless steel.

**Incompatible products**

Alkalis.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls****Engineering controls**

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.

**Individual protection measures, such as personal protective equipment****Eye/face Protection**

Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).

**Hand Protection**

Appropriate chemical resistant gloves should be worn.

**Skin and body protection**

Standard work clothing and work shoes.

**Respiratory protection**

If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

**Other personal protection data**

Eyewash fountains and safety showers must be easily accessible.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Color</b>	colorless to yellow clear
<b>Appearance</b>	to slightly hazy no
<b>Odor</b>	appreciable odor No
<b>Odor threshold</b>	information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks</u></b> /
<b>pH</b>	3.5 - 4.5	<b><u>Method</u></b> as is
<b>Melting / freezing point</b>	No information available	No information
<b>Boiling point / boiling range</b>	No information available	available No
<b>Flash point</b>	Not applicable	information
<b>Evaporation rate</b>	No information available	available No
<b>Flammability (solid, gas)</b>	Not applicable	information
<b>Flammability Limit in Air</b>		available No
<b>Upper flammability limit</b>	Not applicable	
<b>Lower flammability limit</b>	Not applicable	information
<b>Vapor pressure</b>	No information available	available No
<b>Vapor density</b>	No information available	information
<b>Specific gravity</b>	1.260 - 1.280	available
<b>Solubility (water)</b>	Soluble below pH 4	
<b>Solubility in other solvents</b>	No information available	No information available No
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	Not applicable	
<b>Decomposition temperature</b>	No information available	



Kinematic viscosity	No information	No information available
Dynamic viscosity	available 25 - 45 cps	No information available

**Other information**

Density	10.51 - 10.67 lb/gal
Bulk Density	No information available
Explosive properties	No information available.
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
Volatile organic compounds (VOCs) content	No information available
Percent Volatile, wt.%	55 - 65 % (Water)

**10. STABILITY AND REACTIVITY****Reactivity**

**Reactivity**  
No data available.

**Chemical stability**

**Chemical stability**  
Stable under normal conditions of handling, use and transportation.

**Possibility of hazardous reactions**

**Possibility of hazardous reactions**  
None under normal processing.

**Hazardous polymerization**  
Not anticipated under normal or recommended handling and storage conditions.

**Conditions to avoid**

**Conditions to avoid**  
None known

**Incompatible materials**

**Materials to avoid**  
Alkalis.

**Hazardous decomposition products**

**Hazardous decomposition products**  
Thermal decomposition may release toxic and/or hazardous gases such as aluminum, C12, and HCl.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

**Eye contact**  
May cause moderate eye irritation that can become severe with prolonged contact. Prolonged exposure to Aluminum salts may cause conjunctivitis.

**Skin contact**  
Prolonged and/or repeated contact may cause skin irritation.

**Ingestion**

May be harmful if swallowed. May cause irritation of the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Inhalation**

Inhalation of mist or vapor may cause respiratory tract irritation.

**Acute toxicity - Product Information**

**Oral LD50** No information available

**Dermal LD50** No information available

**Inhalation LC50** No information available

**Acute toxicity - Component Information**

Component	weight-%	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret Ingredient	35 - 45%	= 9187 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	--

**Information on toxicological effects****Symptoms**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

Irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye irritation

**Sensitization**

No information available

**Germ cell mutagenicity**

No information available

**Carcinogenicity**

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.

**Reproductive toxicity**

No information available

**Specific target organ toxicity - Single exposure**

No information available.

**Specific target organ toxicity - Repeated exposure**

No information available

**Aspiration hazard**

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)** 17583 mg/kg  
**ATEmix (dermal)** 5005 mg/kg



**Other information**

Data is based on a product of similar composition and conclusions are drawn from sources other than direct testing.

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Acute aquatic toxicity - Product Information**

<b>Fish</b>	No information available
<b>Crustacea</b>	No information available
<b>Algae/aquatic plants</b>	No information available

**Acute aquatic toxicity - Component Information**

Component	weight-%	Algae/aquatic plants	Fish	Toxicity to daphnia and other aquatic invertebrates
Trade Secret Ingredient	35 - 45%	--	LC50 (96 h static) 100 - 500 mg/L (Brachydanio rerio)	--

**Persistence and degradability**

**Persistence and degradability**  
No information available

**Bioaccumulative potential**

**Bioaccumulative potential**  
No information available.

**Mobility**

**Mobility**  
No information available

**Results of PBT and vPvB assessment**

**PBT and vPvB assessment**  
No information available

**Other adverse effects**

**Other information**  
No other ecological studies have been carried out on this product.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations.

**Contaminated packaging**

Since empty containers retain product residue, follow label warnings even after container is emptied.

## 14. TRANSPORT INFORMATION

<b>DOT</b>	NOT APPLICABLE, NOT RESTRICTED. This product is excepted from DOT regulations under 49 CFR 173.154(d) when shipped by road or railway. The product exception is referenced in 49 CFR 172.101 Table. Packaging material must not be aluminum, steel or be degraded by this product
<b>ICAO/IATA</b>	Regulated
<b>UN number</b>	UN3264
<b>Proper shipping name</b>	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Chloride Solution)
<b>Hazard class</b>	8
<b>Packing group</b>	III
<b>ERG Code</b>	8L
<b>IMDG</b>	Regulated
<b>UN number</b>	UN3264
<b>Proper shipping name</b>	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Chloride Solution)
<b>Hazard class</b>	8
<b>Packing group</b>	III
<b>EmS</b>	F-A; S-B
<b>Harmonized Tariff Number</b>	3824.90

## 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**

#### **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.

#### **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).

#### **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.

### **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

This product does not contain any substances regulated under applicable state right-to-know regulations

## **16. OTHER INFORMATION**

<b>NFPA Rating</b>	Health - 1	Flammability - 0	Instability - 0	Special Hazard -
<b>HMIS Rating</b>	Health - 1	Flammability - 0	Physical hazard - 0	Personal protection - <b>B</b>

<b>Product code</b>	3230G
<b>Revision date</b>	2015-05-14
<b>Revision number</b>	1

#### **Disclaimer**

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 a 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.

**End of Safety Data Sheet**