

**SECTION 1: IDENTIFICATION****1.1. Product Identifier****Product Form:** Polyaluminum hydroxychlorosulfate**Product Name:** WST-A1440**1.2. Intended Use of the Product**

Water Treatment Chemical For professional use only.

**1.3. Name, Address, and Telephone of the Responsible Party****Company**

Synthex Organics, LLC

4601 Cortland Avenue

Altoona, PA 16601

(814) 941 - 8375

[www.synthexorganics.net](http://www.synthexorganics.net)**1.4. Emergency Telephone Number****Emergency Number** : Call CHEMTREC Day or Night 1 (800) 424 - 9300 / +1 (703) 527 – 3887**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****GHS-US/CA Classification**

Skin irritant (Category 2)

Serious eye damage (Category 1)

Corrosive to metals (Category 1)

**2.2. Label Elements****GHS-US/CA Labeling****Hazard Pictograms (GHS-US):****Signal Word (GHS-US):****Hazard Statements (GHS-US):**

Danger!

Causes skin irritation and serious eye damage.

May be corrosive to some metals

**Precautionary Statements (GHS-US):**

## Prevention

Wear protective gloves and eye and face protection.

Wash exposed areas thoroughly after handling.

Keep only in original container.

## Response

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a physician.**If on skin:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If irritation occurs, get medical attention.

Absorb spillage to prevent material damage.

## Storage

Store in corrosive resistant container with a resistant inner liner.

## Disposal

Not applicable

**2.3 Other Hazards**

None.

**2.4. Unknown Acute Toxicity (GHS-US/CA)**

No data available

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Hazardous Ingredient(s)	% wt.*	CAS No.	Hazard classification
Polyaluminum hydroxychlorosulfate	15-40	1327-41-9	
Water	60 - 85	7732-18-5	Not classified as dangerous for supply/use.

**Additional Information** - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below: None

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First-aid Measures

**First-aid Measures After Inhalation:** G Move to fresh air. If breathing has stopped, give artificial respiration. Get immediate medical attention. et medical advice/attention if you feel unwell.

**First-aid Measures After Skin Contact:** Immediately flush exposed area with water for at least 15 minutes, and then wash with soap and water. If reddening persists, or if open sores or blisters develop, see a physician. Remove contaminated clothing and launder before re-use.

**First-aid Measures After Eye Contact:** immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses, if present and easy to do. Get immediate medical attention. Do not use chemical antidote.

**First-aid Measures After Ingestion:** Immediately rinse mouth with water. If conscious, give two large glasses of milk, if available, or water. Never give anything by mouth to an unconscious person. Call a physician.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

Contact with eyes can cause severe, permanent damage.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Non-combustible. Use water fog, foam, dry chemical or carbon dioxide as appropriate for other materials involved in the fire.

**Unsuitable Extinguishing Media:** None anticipated

#### 5.2. Special Hazards Arising From the Substance or Mixture

Decomposition can produce aluminum, sulfur compounds and hydrogen chloride.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**Firefighting Instructions:** 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:** Decomposition can produce aluminum, sulfur compounds and hydrogen chloride.

#### Reference to Other Sections

Refer to Section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Persons not wearing protective equipment should be excluded from the area of the spill until cleanup has been completed.

##### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

##### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

#### 6.2. Environmental Precautions

Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

#### 6.3. 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.

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**Methods for Cleaning Up:** Dike area of spill to prevent spreading and pump liquid to salvage tank. Pump liquid to salvage tank. Absorb remaining liquid on vermiculite, floor absorbent or other non-combustible absorbent material and shovel into containers.

### 6.4. Reference to Other Sections

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

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May be corrosive to metals.

**Precautions for Safe Handling:** Avoid contact with skin, eyes and clothing.

**Hygiene Measures:** Wash thoroughly after handling.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Keep in closed or covered containers when not in use. Store in cool dry place with adequate ventilation. Do not store in steel, aluminum, copper or brass containers.

**Incompatible Materials:** Avoid contact with metals, such as steel, aluminum, copper and brass, strong bases and oxidizers.

### 7.3. Specific End Use(s)

Water treatment chemical, For professional use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

#### Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Polyaluminum hydroxychlorosulfate	1327-41-9	15 mg/m <sup>3</sup> <sup>(T)</sup> 5 mg/m <sup>3</sup> <sup>(R)</sup>	2 mg/M3 (as Al soluble salts)	-----	-----	-----

- <sup>(T)</sup> Total Particulate; <sup>(R)</sup> Respirable Particulate

#### Recommended monitoring method

NIOSH 7013 (Aluminum and compounds, as Al)

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Provide sufficient ventilation to maintain exposure below level of overexposure and established exposure limits. Maintain eye wash fountains and quick-drench facilities in work area.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.

**Eye Protection:** Chemical splash goggles and/or full face-shield, in compliance with OSHA regulations, are advised.

**Skin and Body Protection:** Wear protective gloves such as Neoprene or Buna-N and normal work clothing covering arms and legs. Leather shoes and boots cannot be decontaminated if soaked with liquid material.

**Respiratory Protection:** Not required under normal conditions of use; however, a NIOSH/MSHA approved respirator is recommended where there is insufficient ventilation to maintain exposures below established exposure limits.

**Other Information:** When using, do not eat, drink or smoke.

**Environmental Exposure Controls:** Avoid release to the environment.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear to slightly hazy
Odor	: None
Odor Threshold	: Not available
pH	: 2.5-4.5
Evaporation Rate	: Slower (Ethyl Ether = 1)
Melting Point	: Not available
Freezing Point	: <-10 F (-23° C)
Boiling Point	: >220° F (104° C)
Flash Point	: >212° F (100° C) PMCC
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: 17.5 @ 68° F (20° C) (water)
Relative Vapor Density at 20°C	: Similar to water
Relative Density	: >1.2 @77° F (25° C)
Volatile %:	: >60
Solubility	: 100% Water
VOC %:	: Nil
Viscosity	: Not available

### SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Reacts with metals, such as steel, aluminum, copper and brass.
- 10.2. **Chemical Stability:** Stable under normal conditions of 70° F (21° C) and 14.7 psig (760 mm Hg).
- 10.3. **Possibility of Hazardous Reactions:** Contact with strong alkalis or oxidizers may result in a violent reaction.
- 10.4. **Conditions to Avoid:** Avoid temperatures above 100°F (38°C)
- 10.5. **Incompatible Materials:** Avoid contact with metals, such as steel, aluminum, copper and brass, strong bases and oxidizers.
- 10.6. **Hazardous Decomposition Products:** None anticipated. Decomposition can produce aluminum, sulfur compounds and hydrogen chloride

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects – Product

##### LIKELY ROUTES OF EXPOSURE

Skin and eye contact and inhalation

##### SYMPTOMS

Eyes: Symptoms include pain and irritation.

Skin: Symptoms include redness and irritation.

Swallowing: Symptoms include irritation of the mouth, throat and esophagus

##### EFFECTS FROM EXPOSURE

Immediate: Material can cause severe irritation. In severe cases, of eye contact, ulceration and permanent blindness may occur.

Delayed: Prolonged or repeated inhalation of vapors, spray or mist, in excess of the established exposure limit, may cause pulmonary edema.

Chronic: Unavailable

##### TOXICITY DATA

InVitro DOT Skin Corrosive Study – Not corrosive

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### CARCINOGENICITY

This product is not reported to have any carcinogenic effects. This product (or components) is not listed in IARC Monographs, the current NTP Report on Carcinogens or the current ACGIH TLVs as a carcinogen or potential carcinogen. OSHA does not regulate it as a carcinogen.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### ECOTOXICITY

##### Acute toxicity

48-hr. LC50 (ceriodaphnia dubia or water flea) – 137.1 mg/L

96-hr. LC50 (Pimephales promelus or fathead minnow) – 34.9 mg/L

##### Chronic toxicity

3-Brood Survival and Reproduction Test (ceriodaphnia dubia or water flea)

NOEC – 100 mg/L; LOEC – 500 mg/L

7-day Larval Survival and Growth Test (Pimephales promelus or fathead minnow)

NOEC – 10 mg/L;

LOEC – 100 mg/L

NOEC – No Observable Effect Concentration

LOEC – Lowest Observable Effect Concentration

#### PERSISTENCE AND BIODEGRADABILITY

Does not biodegrade

#### BIOACCUMULATIVE POTENTIAL No data available

#### MOBILITY IN SOIL No data available

#### OTHER ADVERSE EFFECTS No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Material that cannot be recovered or recycled should be sent to an approved hazardous waste disposal facility for neutralization and disposal. Material collected on absorbent material may be deposited in a landfill in accordance with all applicable local, state and federal regulations. This product, if disposed of, is not considered a hazardous waste under current RCRA definitions.

## SECTION 14: TRANSPORT INFORMATION

This material is corrosive to aluminum or steel only. It is NOT subject to packaging, labeling, placarding or shipping paper requirements, or any other part of the DOT hazardous materials regulations when shipped by motor vehicle or rail only in packaging compatible with the product [49CFR173.154(d)].

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
<b>UN number</b>	UN 3264	UN 3264	UN 3264
<b>Proper Shipping Name</b>	Corrosive liquid, acidic, inorganic, n.o.s. (polyaluminum hydroxychlorosulfate)		
<b>Transport hazard class(es)</b>	8	8	8
<b>Packing group</b>	III	III	III
<b>Environmental hazards</b>	No.	No.	No.
<b>Special precautions for user</b>	None assigned	None assigned	None assigned

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable

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### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal Regulations

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories: None

Fire     Sudden Release     Reactivity     Immediate (acute)     Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	----	----

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

The following sections contain revisions or new statements: 1-16.

Date of preparation: June 9, 2022

NFPA: Health: 1; Flammability: 0; Reactivity: 0

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