

## Safety Data Sheet

### 1. IDENTIFICATION

**Product Identifier****Product Name** DeLPAC XG**Other means of identification**

USALCO SDS # 660

**Synonyms**

Aluminum chloride hydroxide, Aluminum chlorohydrate

**Recommended use of the chemical and restrictions on use****Common Use** Water treatment chemical.**Manufacturer**USALCO, LLC  
2601 Cannery Ave  
Baltimore, MD 21226**Emergency Telephone Number****Company Phone Number** Business 1-410-354-0100 (7:00am-5:00pm)

Fax 1-410-354-1021

**Emergency Telephone (24 hr)** 1-800-282-5322

### 2. HAZARDS IDENTIFICATION

**Appearance:** Clear to light grey  
slightly hazy liquid.**Physical State:** Liquid.**Odor:** Negligible.**Signal Word**

Warning

**Hazard Statements**

Causes skin and eye irritation.

**Precautionary Statements - Prevention**Wear eye/face protection.  
Wash hands and any exposed skin thoroughly after handling.  
Wear protective gloves.**Precautionary Statements - Response**

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. 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 attention.

**Precautionary Statements - Storage**

Store in corrosive resistant plastic or FRP container or container with corrosive resistant inner liner.

**Precautionary Statements - Disposal**

Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	40-70
Aluminum Chloride Hydroxide	12042-91-0	30-60

**4. FIRST-AID MEASURES****First Aid Measures**

**General Advice** After first aid, get appropriate in-plant, paramedic, or community medical support.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact** Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation occurs.

**Inhalation** (mist or spray) Remove from exposure; seek medical treatment if any symptoms occur. Oxygen or artificial respiration if needed.

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

**Most important symptoms and effects**

**Symptoms** May cause dermatitis or irritation in some individuals upon prolonged contact.

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

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Combustion products may be toxic.

**Hazardous Combustion Products:** Hydrogen chloride.

**Protective equipment and precautions for firefighters**

Use water spray to keep fire-exposed containers cool. Do not release runoff from fire control methods to sewers or waterways.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment as required.

**Environmental Precautions** Do not release into sewers or waterways.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up**

**Methods for Clean-Up Small Spills:** Wash down with large volumes of water if the runoff can be collected and managed.

**Large Spills:** Dike ahead of liquid to control the spread of the spill. Pump liquid into a suitable tank for disposal. Wash the area down with water to remove residue. Spills can be neutralized and absorbed with soda ash, lime or other basic chemicals. Exercise caution when neutralizing spills, as by-products gasses, such as carbon dioxide, may be generated and could potentially generate a hazardous atmosphere. Adequate ventilation is required if the potential for the release of gases exists.

## 7. HANDLING AND STORAGE

**Precautions for safe handling****Advice on Safe Handling**

Ensure that all containers are labeled in accordance with OSHA regulations. Avoid contact with metal, as product will slowly corrode iron, brass, copper, aluminum and mild steel. Avoid contact with skin and eyes. Use personal protection recommended in Section 8.

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

*Store in a cool, dry place away from direct heat. Keep container tightly closed when not in use. Do not store in unlined metal containers. Product may slowly corrode iron, brass, copper, aluminum and mild steel.*

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum Chloride Hydroxide 12042-91-0	TWA: 1 mg/m <sup>3</sup> respirable fraction	-	-

**Appropriate engineering controls**

**Engineering Controls** Good general room ventilation should be adequate under normal conditions. Showers. Eyewash stations.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with, contact lenses.

**Skin and Body Protection** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory Protection** Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of enough oxygen. **WARNING!** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**General Hygiene Considerations** Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Clear to light grey slightly hazy liquid
Odor	Negligible
Odor threshold	Not determined
pH	4.2±0.2
Relative density; (specific gravity)	±1.3 (1=Water) @ 4°C
Melting point/freezing point	-5.5 °C / 22 °F
Initial boiling point and boiling range	102-108 °C / 221±5 °F
Decomposition temperature	±120° C / 250° F
Viscosity	10-100 centistokes
Auto-ignition temperature	Will not burn.
Evaporation rate;	Not determined
Flammability (solid, gas)	Will not burn.
Flash point	Will not burn.
Upper/lower flammability or explosive limits	Will not burn.
Partition coefficient: n-octanol/water	Not determined.
Solubility	Complete in water.
Vapor density	Similar to water.
Vapor pressure	Similar to water.
VOC Content (%)	0.0

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Conditions to Avoid

Excessive heating after water evaporation for long periods of time can result in the evolution of HCl.

### Incompatible Materials

Will react with caustics to form aluminum hydroxides. Will corrode ordinary grades of steel.

### Hazardous Decomposition Products

Hydrogen chloride can be evolved during high temperature heating for extended periods of time.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact**      Avoid contact with eyes.

**Skin Contact**     May be harmful in contact with skin.

**Inhalation**        Avoid breathing vapors or mists.

**Ingestion**         Do not taste or swallow.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Chloride Hydroxide 12042-91-0	= 9187 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

Not determined

<b>12. ECOLOGICAL INFORMATION</b>
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**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Aluminum Chloride Hydroxide 12042-91-0		100 - 500: 96 h Brachydanio rerio mg/L LC50 static		

**Persistence/Degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

<b>14. TRANSPORT INFORMATION</b>
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**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Not determined

**US Federal Regulations****CERCLA**

Does not apply

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**SARA 313**

This product does not contain any ingredients subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372).

**CWA (Clean Water Act)**

Not Listed

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

Not determined

<b>16. OTHER INFORMATION</b>
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<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	1	0	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	1	0	0	Not determined

**Issue Date** 4-30-2013  
**Revision Date:** 10-29-2020, Sec. 6 revised.

**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