# **DelPAC 1842**



10-29-2020

## Safety Data Sheet

#### 1. IDENTIFICATION

Product Identifier

Product Name Aluminum Chloride Basic, Solution

Other means of identification

**SDS #** 650

UN/ID No UN3264

Synonyms Aluminum chloride hydroxide

Recommended use of the chemical and restrictions on use Recommended 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 Colorless to yellow liquid Physical State Liquid Odor Negligible to hydrogen chloride

Normally clear but may be hazy

## Classification

Serious eye damage/eye irritation	Category 2
Corrosive to Metals	Category 1

## Signal Word Warning

## **Hazard Statements**

Causes serious eye irritation May be corrosive to metals

## <u>Precautionary Statements - Prevention</u>

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

## **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**

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): May be D002 under §261.22(a)(2) due to the rate of corrosion of metal.





#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	70-85
Aluminum Chloride, Basic	1327-41-9	30-34

#### 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. Seek

immediate medical attention/advice.

**Skin Contact** Wash off immediately with plenty of water. Take off contaminated clothing. Wash

contaminated clothing before reuse. Get medical attention if necessary.

Inhalation Remove to fresh air. Oxygen or artificial respiration if needed. Get medical attention if

symptoms occur.

**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 eye burns and permanent eye damage. May cause blurred vision, redness,

watering and burning of the eyes. May include redness, drying and cracking of skin. May

cause irritation to the mucous membranes and upper respiratory tract.

#### 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. Chlorine gas.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. 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. See Section 12 for additional Ecological

Information.

## Methods and material for containment and cleaning up

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

**Revision Date:** 10-29-2020 Page 2 of 6



#### 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 Wash thoroughly after handling. Use personal protection recommended in Section 8.

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.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

incompatible materials. Keep storage temperature between 0°C/32°F and 30°C/86°F. Keep

only in original container.

**Packaging Materials** Store in rubber-lined, plastic or FRP vessels.

Incompatible Materials Strong bases. Alcohols. Organic materials. Ammonia. Will react with most metals

(aluminum, iron, zinc, tin, etc.) to release flammable hydrogen gas.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No exposure limits noted for product. Exposure Limits for aluminum metal

NIOSH REL - TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp) OSHA PEL - TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)

#### **Appropriate engineering controls**

**Engineering Controls** Local exhaust ventilation recommended. Eyewash stations. Showers.

#### 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 sufficient 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.

**Revision Date:** 10-29-2020 Page 3 of 6



## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Colorless to yellow liquid. Normally clear but may be hazy.		
Odor	Negligible to hydrogen chloride		
Odor threshold	Not determined		
pH	<1.0		
Relative density; (specific gravity)	±1.3 (1=Water) @ 4°C		
Melting point/freezing point	<-32° C / <0° F		
Initial boiling point and boiling range	> 110° C / >230° F		
Decomposition temperature	±120° C / 250° F		
Viscosity	10 centipoise		
Auto-ignition temperature	Not flammable		
Evaporation rate;	Similar to water		
Flammability (solid, gas)	Not flammable		
Flash point	Will not burn		
Upper/lower flammability or explosive limits	Will not burn		
Partition coefficient: n-octanol/water	Not relevant		
Solubility	Soluble in water		
Vapor density	Similar to water		
Vapor pressure	Similar to water		

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

Not compatible with strong bases (such as sodium hydroxide and potassium hydroxide); alcohols, organic materials (such as wood, paper, leather) and ammonia. Mixing may generate heat, spattering or boiling and toxic vapors.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Contact with incompatible materials.

## **Incompatible Materials**

Strong bases. Alcohols. Organic materials. Ammonia. Will react with most metals (aluminum, iron, zinc, tin, etc.) to release flammable hydrogen gas.

## **Hazardous Decomposition Products**

Hydrogen chloride. Chlorine gas.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Eye Contact** Causes serious eye damage.

**Skin Contact** Avoid 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, basic 1327-41-9	> 2000 mg/kg (Rat)	-	-

**Revision Date:** 10-29-2020 Page 4 of 6



#### 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.

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

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

## Persistence/Degradability

Not determined

#### Bioaccumulation

Not determined

#### Mobility

Not determined

#### **Other Adverse Effects**

Not determined

#### 13. DISPOSAL CONSIDERATIONS

#### **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.

#### 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN3264

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride, basic)

Hazard Class 8
Packing Group III

<u>IATA</u>

UN3264

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride, basic)

Hazard Class 8
Packing Group III

<u>IMDG</u>

UN/ID No UN3264

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride, basic)

Hazard Class 8
Packing Group III

**Revision Date:** 10-29-2020 Page 5 of 6



## 15. REGULATORY INFORMATION

#### **International Inventories**

Not determined

## US Federal Regulations

#### **CERCLA**

Does not apply

#### 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

#### **CWA (Clean Water Act)**

Does not apply

#### **US State Regulations**

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Aluminum chloride, basic			X
1327-41-9			

16. OTHER INFORMATION				
NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	Not determined
HMIS	Health Hazards	Flammability	Instability	Personal Protection
	2	0	0	Not determined

Issue Date 4-30-2013

Revision Date: 4-28-2015. 2-27-2020, New format. 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

**Revision Date:** 10-29-2020 Page 6 of 6