

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	Aluminum Chlorohydrate Solution
Chemical Name	12042-91-0
CAS No.	CC 2000
Trade Name	None
Product Code	
Relevant identified uses of the substance or mixture and uses advised against	Water Treatment Chemical
Identified Use(s)	None
Uses Advised Against	
Company Identification	USALCO Modesto Plant, LLC 2801 Cannery Ave Baltimore, MD 21226 (410)-354-0100 (410)-354-1021 info@usalco.com
Telephone	
Fax	
E-Mail (competent person)	
Emergency telephone number	CHEMTREC 24 hr. (800) 424-9300; Not classified as
Emergency Phone No.	dangerous for transport.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture	Not classified as dangerous for supply/use.
OSHA HCS (29 CFR 1910.1200)	
Label elements	
Hazard Symbol	None
Signal word(s)	None
Hazard Statement(s)	None
Precautionary Statement(s)	Avoid contact with skin and eyes. Wear protective gloves/eye protection. IF INHALED: Get medical advice/attention if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Other hazards	None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	% wt.*	CAS No.	Hazard classification
Aluminum Chlorohydrate	50	12042-91-0	Not classified as dangerous for supply/use.
Water	50	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



Description of first aid measures

Inhalation

Skin Contact

Eye Contact

Ingestion

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Get medical advice/attention if you feel unwell.

Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

Call a POISON CENTER or doctor/physician if you feel unwell.

None

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media

-Unsuitable Extinguishing Media

Special hazards arising from the substance or mixture

Advice for fire-fighters

Non-combustible. As appropriate for surrounding fire. None anticipated.

Combustion or thermal decomposition will evolve toxic and irritant vapours.

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental precautions

Avoid contact with skin and eyes. Wear protective gloves/eye protection.

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

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections
Additional Information

None
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Keep in a cool, well ventilated place. Store at temperatures not exceeding 50°C / 122 °F. Protect from sunlight.

-Incompatible materials

This product should be stored away from sources of strong heat, oxidizing chemicals, and reducing agents.

Specific end use(s)

Water Treatment Chemical

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Aluminum Chlorohydrate, as Al	12042-91-0	15 mg/m ³ ⁽¹⁾ 5 mg/m ³ ⁽²⁾	1 mg/m ³ ⁽²⁾	—	—	—

- ⁽¹⁾ Total Particulate; ⁽²⁾ Respirable Particulate

Recommended monitoring method

NIOSH 7013 (Aluminum and compounds, as A.)

Exposure controls

Not normally required.

Appropriate engineering controls

Personal protection equipment

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

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



Respiratory protection

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.



Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color	Almost colourless to pale yellow
Odor	None
Odor Threshold (ppm)	Not available
pH (Value)	4 - 5
Melting Point (°C) / Freezing Point (°C)	- 5.5 (22 °F)
Boiling point/boiling range (°C):	100 °C (212 °F)
Flash Point (°C)	Non-combustible
Evaporation Rate	Similar to water
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Non-combustible
Vapor pressure (Pascal)	Similar to water
Vapor Density (Air=1)	Similar to water
Density (g/ml)	1.34
Solubility (Water)	Miscible
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Non-combustible
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	Similar to water
Explosive properties	Not explosive
Oxidizing properties	Not oxidising
Other Information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Incompatible materials.
Incompatible materials	Substances that react with water or aluminum.
Hazardous decomposition product(s)	None anticipated.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Aluminum Chlorohydrate (CAS No. 12042-91-0):

Acute toxicity	Oral LD50 = 9187 mg/kg (Rat)
	Dermal LD0 = >2000 mg/kg (Rat)
Irritation / Corrosivity	Unlikely to cause eye irritation. Unlikely to cause skin irritation.
Sensitisation	It is not a skin sensitizer.
Repeated dose toxicity	Not to be expected.
Carcinogenicity	It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity	Negative
Toxicity for reproduction	Negative

Reproductive toxicity
Other information

Not to be expected
None known.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Short term

LC50 (96 hr): 609 mg/l (Fathead minnow)
LC50 (48 hour): 397 mg/L (Daphnia magna)

Long Term

Not available.

Persistence and degradability

Not readily biodegradable.

Bioaccumulative potential

The product has no potential for bioaccumulation.

Mobility in soil

Not available.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

UN number

Proper Shipping Name

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for user

U.S. DOT

Sea transport
(IMDG)

Air transport
(ICAO/IATA)

Not classified as dangerous for transport.

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

SECTION 15: REGULATORY INFORMATION

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

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

Date of preparation: 03/22/21

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- None.

Training advice: None.

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