

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Chemical Name	Aluminum Chlorohydrate Solution
CAS No.	12042-91-0
Trade Name	ACS 2000
Product Code	None

**Relevant identified uses of the substance or mixture and uses advised against**

Identified Use(s)	Water Treatment Chemical
Uses Advised Against	None

**Manufacturing Company Identification**

Aluminum Chemical Specialties, LLC  
7284 Justin Way  
Mentor, OH 44060



(440) 255-2826  
(440) 255-2846  
[info@alchemspecialties.com](mailto:info@alchemspecialties.com)

**Repackaged and Relabeled as 'PAC-50' by**



Walter Louis Fluid Technologies  
530 South 5th Street  
Quincy, IL 62301  
217-223-2017, fax 7734  
[Sales@WalterLouis.com](mailto:Sales@WalterLouis.com)

**Emergency telephone number**

CHEMTREC 24 hr. (800) 424-9300;  
Not classified as dangerous for transport.

### SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

OSHA HCS (29 CFR 1910.1200)	Not classified as dangerous for supply/use.
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**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

# PAC-50

## 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	Get medical advice/attention if you feel unwell.
Skin Contact	Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	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.
Ingestion	Call a POISON CENTER or doctor/physician if you feel unwell.

**Most important symptoms and effects, both acute and delayed** None

**Indication of any immediate medical attention and special treatment needed** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

-Suitable Extinguishing Media	Non-combustible. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	None anticipated.

### Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours.

### Advice for fire-fighters

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

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

### Environmental precautions

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

None

# PAC-50

Additional Information

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 <sup>3</sup> <sup>(T)</sup> 5 mg/m <sup>3</sup> <sup>(R)</sup>	1 mg/m <sup>3</sup> <sup>(R)</sup>	-----	-----	-----

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

### Recommended monitoring method

NIOSH 7013 (Aluminum and compounds, as Al)

### Exposure controls

#### Appropriate engineering controls

Not normally required.

#### 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

# PAC-50

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
<b>Other information</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

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

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

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

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

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

<b>Mutagenicity</b>	Negative
<b>Toxicity for reproduction</b>	Negative
<b>Reproductive toxicity</b>	Not to be expected
<b>Other information</b>	None known.

# PAC-50

## 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

### U.S. DOT

### Sea transport (IMDG)

### Air transport (ICAO/IATA)

UN number

Proper Shipping Name

Not classified as dangerous for transport.

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for user

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	----	----

# PAC-50

## SECTION 16: OTHER INFORMATION

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

**Date of preparation:** April 27, 2015

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

**Hazard Statement(s)**

- None.

**Training advice:** None.

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