

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/27/2007 Revision date: 06/20/2013 Supersedes: 02/10/2011

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Substance Substance name : Aluminum Chloride Hexahydrate CAS No : 7784-13-6 Product code : LC10810 Formula : AICI3-6H2O 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : For laboratory and manufacturing use only. Details of the supplier of the safety data sheet 1.3. LabChem Inc Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court 16063 Zelienople, PA - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com **Emergency telephone number** 1.4. : CHEMTREC: 1-800-424-9300 or 011-703-527-3887 Emergency number **SECTION 2: Hazards identification** 2.1. **Classification of the substance or mixture GHS-US classification** Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Aquatic Acute 3 H402

## 2.2. Label elements

### GHS-US labelling Hazard pictograms (GHS-US

Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	<ul> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> <li>H402 - Harmful to aquatic life</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, fume</li> <li>P264 - Wash exposed skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves, eye protection</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of soap and water</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER/doctor//if you feel unwell</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362 - Take off contaminated clothing</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to comply with local, state and federal regulations</li> </ul>
2.3. Other hazards	
Other hazards not contributing to the classification	: None.
2.4. Unknown acute toxicity (GHS US)	
No data available	

### No data available

Version: 1.0

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.1. Substances		ingredients		
Substance type	· Mo	ono-constituent		
	. 1010			
Name Aluminum Chloride Hexahydrate		Product identifier (CAS No) 7784-13-6	<b>%</b> 100	GHS-US classification Skin Irrit. 2, H315
(Main constituent)		(CAS NO) 1104-15-0	100	Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 3, H402
ull text of H-phrases: see section 16				
.2. Mixture				
lot applicable				
ECTION 4: First aid measures				
.1. Description of first aid measure	es			
irst-aid measures general	(sł	now the label where possible).	•	If you feel unwell, seek medical ad
irst-aid measures after inhalation		emove to fresh air and keep at rest ENTER/doctor/physician if you feel		able for breathing. Call a POISON
irst-aid measures after skin contact		ash with plenty of soap and water. curs: Get medical advice/attention		clothing before reuse. If skin irritati
irst-aid measures after eye contact	do	. Continue rinsing. If eye irritation	persists: Get medical	
irst-aid measures after ingestion	: Ri	nse mouth. Do NOT induce vomiti	ng. Obtain emergenc	y medical attention.
.2. Most important symptoms and	effects, bo	th acute and delayed		
ymptoms/injuries after inhalation		ay cause respiratory irritation.		
ymptoms/injuries after skin contact		auses skin irritation.		
ymptoms/injuries after eye contact		auses serious eye irritation.		
ymptoms/injuries after ingestion		ausea. Vomiting. Diarrhoea.		
Chronic symptoms	: NC	specific information available.		
.3. Indication of any immediate me	edical atten	tion and special treatment need	ed	
	edical atten	tion and special treatment need	ed	
Obtain medical assistance.		tion and special treatment need	ed	
Obtain medical assistance. SECTION 5: Firefighting measur		tion and special treatment need	ed	
Obtain medical assistance. SECTION 5: Firefighting measur .1. Extinguishing media	es	tion and special treatment need		
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Obtain medical assistance.         SECTION 5: Firefighting measure.         .1.       Extinguishing media         suitable extinguishing media         Insuitable extinguishing media	<b>es</b> : Fo : Do	am. Dry powder. Carbon dioxide. o not use a heavy water stream.		
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Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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6.3. Methods and material	for containment and cleaning up	
For containment	: Take account of toxic/corrosive precipitation water.	
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store aways from other materials.	
6.4. Reference to other sec	tions	
See Heading 8. Exposure controls and personal protection.		
SECTION 7: Handling and storage		

7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation or vapour. Avoid breathing dust, fume. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash exposed skin thoroughly after handling.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Packaging materials	: Do not store in corrodable metal.
7.3. Specific end use(s)	

No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### **Control parameters** 8.1.

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Molecular mass	: 241.43 g/mol
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
pH solution	: 2.5 - 3.5 20°C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 100 °C
Freezing point	: No data available
Boiling point	: 182 °C
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1 hPa 100°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 2.398 g/cm <sup>3</sup>

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Solubility	: Soluble in water. Soluble in ether. Soluble in ethanol. Soluble in glycerol. Water: 111 g/100ml Ethanol: 25 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and	reactivity
10.1. Reactivity	
Thermal decomposition generates	Corrosive vapours
10.2.Chemical stabilityHygroscopic.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·
10.3. Possibility of hazardou	is reactions
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or le	ow temperatures.
10.5. Incompatible materials	
Strong oxidizers. Strong bases.	
10.6. Hazardous decomposit	tion products
fume. Hydrogen chloride.	
SECTION 11: Toxicologica	al information
11.1 Information on toxicolo	

11.1. Information on toxicological effects

Acute toxicity

: Not classified

Aluminum Chloride Hexahydrate ( \f )7784-13-6			
LD50 oral rat	3311 mg/kg		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classifiedBased on available data, the classification criteria are not met		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classifiedBased on available data, the classification criteria are not met		
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.		
Specific target organ toxicity (repeated exposure)	: Not classifiedBased on available data, the classification criteria are not met		
Aspiration hazard	: Not classifiedBased on available data, the classification criteria are not met		
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.		
Symptoms/injuries after inhalation	: May cause respiratory irritation.		
Symptoms/injuries after skin contact	: Causes skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: Nausea. Vomiting. Diarrhoea.		
Chronic symptoms	: No specific information available.		

<b>SECTION 12: Ecological information</b>		
12.1. Toxicity		
Ecology - water	: Harmful to aquatic life.	
Aluminum Chloride Hexahydrate (7784-13-6)		
LC50 fishes 1	27.1 mg/l	
EC50 Daphnia 1	27.3 mg/l	
06/20/2013	EN (English)	4/7

# Aluminum Chloride Hexahydrate Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.2. Persistence and degradability	
Aluminum Chloride Hexahydrate (7784-13-6 Persistence and degradability	Not established.
	NOL ESTADIISHEU.
12.3. Bioaccumulative potential	
Aluminum Chloride Hexahydrate (7784-13-6	·
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of
	contents/container to comply with local, state and federal regulations.
Ecology - waste materials	: Avoid release to the environment.
<b>SECTION 14: Transport information</b>	
In accordance with ADR / RID / ADNR / IMDG /	ICAO / IATA
14.1. UN number	
UN-No.(DOT)	: 1726
DOT NA no.	UN1726
14.2. UN proper shipping name	
DOT Proper Shipping Name	: Aluminum chloride, anhydrous
Department of Transportation (DOT) Hazard Classes	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive substances
	8
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).</li> <li>IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.</li> <li>IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.</li> <li>T3 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 212
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport No additional information available	

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Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 15 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 50 kg
SECTION 15: Regulatory information	

15 1	IIS Endoral	regulations

15.1. US Federal regulations	
Aluminum Chloride Hexahydrate (7784-13-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

### 15.2. International regulations

#### CANADA

Aluminum Chloride Hexahydrate (7784-13-6)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

## **EU-Regulations**

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

## Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

## 15.2.2. National regulations

No additional information available

## 15.3. US State regulations

Aluminum Chloride Hexahydrate(7784-13-6)	
State or local regulations	U.S Minnesota - Chemicals of High Concern U.S Pennsylvania - RTK (Right to Know) List

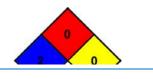
## SECTION 16: Other information Indication of changes : Revision - See : \*. Other information : None.

Full text of H-phrases: see section 16:

Aquatic Acute 3	Hazardous to the aquatic environment — AcuteHazard, Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

NFPA health hazard

2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
 0 - Materials that will not burn.



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eactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

## **HMIS III Rating**

: 2 Moderate Hazard - Temporary or minor injury may occur
: 0 Minimal Hazard
: 0 Minimal Hazard
: E

SDS US (GHS HazCom 2012)

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