

Safety Data Sheet

Aluminum Chloride 40% in 70% SDA

Revision Date: 02/07/18

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier Trade name: Aluminum Chloride 40% in 70% SDA
Product code(s): 400597

1.2 Relevant identified uses Laboratory Reagent

Supplier: HealthLink, Inc

800-441-0366 Technical Service
Monday-Friday: 8:00 -5:00 PM

Synonym: None.

Material uses: Laboratory Reagent.

Validation date: 12/11/2013

In case of emergency: 800-424-9300 CHEMTREC (USA)
24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Label Elements: Pictogram



Signal Word: Danger!

Hazard statement(s):

H225: Highly flammable liquid and vapor

H314: Causes severe skin burns and eye damage

Precautionary statement(s):

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking

P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P280: Wear protective gloves/ eye protection/ face protection.

P305+351+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

NFPA Rating

Health hazard: 1

Fire: 3

Reactivity Hazard: 0

HMIS Classification

Health hazard: 1

Flammability: 3

Physical hazards: 0

Potential Health Effects : Inhalation – May cause respiratory tract irritation.
Skin - May cause skin irritation.
Eyes – May cause eye irritation.
Ingestion – Potentially toxic if swallowed in large quantities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by volume
Aluminum Chloride Hexahydrate	7784-13-6	40
SDA-3C (ethanol/IPA)	64-17-5/67-63-0	~70

4. FIRST AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: *Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.*

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

5. FIREFIGHTING MEASURES

Flammability of the product: Flammable

Extinguishing media: Use suitable media for surrounding materials. Use water fog, avoid direct stream.

Special exposure hazards: Avoid contact with strong oxidizers

Hazardous thermal

decomposition products: Decomposition products: carbon dioxide, carbon monoxide

Special protective

equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment for surroundings.

Explosion hazards: Not-applicable

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

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 of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Protect from sunlight. Store in a well-ventilated place.

Incompatible products: Strong oxidizers. Strong reducing agents. Strong bases.

Incompatible materials: Sources of ignition. Direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Component	Source	Type	Value	Note
Isopropyl Alcohol	ACGIH	TWA	200 ppm	
	ACGIH	STEL	200 ppm	
	OSHA	PEL (TWA)	980 mg/m ³	
	OSHA	TWA (ppm)	400 ppm	
Ethanol Solution	ACGH	STEL	1000 ppm 15 min	
	OSHA	PEL (TWA)	1000 ppm 8 hours	
	NIOSH	REL (TWA)	1000 ppm 10 hours	
Aluminum Chloride Hexahydrate	NIOSH	REL(TWA)	2 mg/m ³	

Personal protective equipment: Safety glasses. Gloves. Protective clothing. High gas/vapor concentration: gas mask with filter type B.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask. Gas mask with filter type B.

Other information: Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.	Color: colorless
Flash Point: 17°C (63°F)-closed cup	Odor: Slightly Sweet Odor
pH: NA	Boiling/condensation point: NA
Melting/freezing point: NA	Relative density: ~0.95 g/mL at 20°C
Vapor pressure: NA	Vapor density: NA
Odor threshold: NA	Evaporation rate: NA
VOC: NA	Solubility: Water and less in ethanol

10. STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Vapors may form explosive mixture with air. Reacts violently with water.

10.4. Conditions to avoid

High temperatures, flames, sparks

10.5. Incompatible materials

Strong oxidizers, Alkali metals, ammonia, peroxides

10.6. Hazardous decomposition products

Carbon oxides. Hydrogen chloride gas, aluminum oxide

11. TOXICOLOGICAL INFORMATION

Water (7732-18-5)

LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000.000 mg/kg body weight

Ethanol (64-17-5)

LD50 Oral rat	3450 mg/kg (mouse)
LC50 Inhalation rat	20000 ppm/10H

Isopropyl Alcohol (67-63-0)

LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	12870 mg/kg
ATE US (oral)	5045 mg/kg

Aluminum Chloride Hexahydrate (7784-13-6)

LD50 oral rat	3311 mg/kg
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Skin corrosion/irritation: Skin irritation

Serious eye damage/irritation: Causes serious eye irritation

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not Classified

12. ECOLOGICAL INFORMATION

Toxicity:

Ethanol (64-17-5)

LC50 fish 1 14200 mg/l (96h; Pimephales promelas)

EC50 Daphnia 1 9300 mg/l (48h; Daphnia magna)

Isopropanol (67-63-0)
LC50 fish 1 15400 mg/l (Rasbora heteromorpha)
EC50 Daphnia 1 >10000 mg/l (48h; Daphnia magna)

Persistence and degradability:

Ethanol (64-17-5)
Biochemical oxygen demand 0.8-0.967 g O₂/g substance
Chemical oxygen demand 1.70 g O₂/g substances
ThOD 2.10 g O₂/g substances

Isopropanol (67-63-0)
Biochemical oxygen demand 1.19 g O₂/g substance
Chemical oxygen demand 2.23 g O₂/g substances
ThOD 2.40 g O₂/g substances

Bioaccumulative potential: no data available

Mobility in soil:

Ethanol (64-17-5) Surface tension 0.022 N/m (20°C)
Isopropanol (67-63-0) Surface tension 0.021 N/m (20°C)

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US)

UN 1170
Shipping Name: Ethanol Solution
Class: 3
Group: II

IATA

UN 1170
Shipping Name: Ethanol Solution
Class: 3
Marine Pollutant: No
Group: II

15. REGULATORY INFORMATION

15.1 US Federal Regulations

All components are listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 International Regulations

All components are listed on the Canadian DSL (Domestic Substances List)

15.3 US States Regulations

California Proposition 65- This product does contain substances known to the state of California to cause cancer and/or reproductive harm. Ethanol (64-17-5)

RTK: Ethanol CAS 64-17-5 MA, PA, NJ
Isopropyl Alcohol CAS 67-63-0 NJ, PA

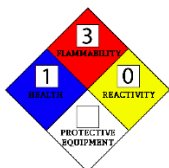
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations
International lists:

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall HealthLink, Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.