



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Aluminum Chloride USP Hexahydrate Crystals

Commercial Name Aluminium trichloride hexahydrat

Product Use Inorganic Chemical Restrictions On Use Not available

Product Code 30-1286

Company PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760 CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Skin irritation, Category 2 Eye irritation, Category 2A

CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) Causes skin irritation. Causes serious eye irritation.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection.

Response IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/

attention. Take off contaminated clothing and wash before reuse.

Storage Not available

Disposal Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components Aluminum chloride hexahydrate

% By Weight 100
CAS# 7784-13-6
Molecular Weight 241.43 g/mole
Chemical Formula AICI3.6H2O
Synonym(s) Not available.

Mixtures

NameCAS#% by WeightTLV/PELLC50/LD50Aluminum chloride hexahydrate7784-13-6100Not available.ORAL (LD50):Acute: 3311mg/kg [Rat.].

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Section 4: First-Aid Measures

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use

oxygen as required, provided a qualified operator is present. Call a physician.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and

shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or

ersists.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if

irritation develops or persists.

Ingestion Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Call a physician.

Symptoms/Effects

Acute Not available Delayed Not available.

Immediate Medical Attention

Treat symptomatically.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water spray Foam Carbon dioxide (CO2) Dry powder

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Aluminum oxides Hydrogen chloride gas

Firefighters Special Equipment and Precautions

Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Provide adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away. Avoid dust formation. Environmental precautions: Do not flush into surface water or sanitary sewer system. Methods and materials for containment and cleaning up: Ventilate the area. Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

Section 7: Handling and Storage

Precautions for safe handling: Wear personal protective equipment. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Use only in well-ventilated areas. Avoid dust formation. Do not swallow. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Advice on protection against fire and explosion:

Normal measures for preventive fire protection. Storage Conditions for safe storage, including any incompatibilities: Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from atmospheric moisture and water.

Section 8: Exposure Controls/Personal Protection

Exposure Limits Value: TWA : Time weighted average Control parameters: 1 mg/m3 Update: 2009 Basis: ACGIH:US.

ACGIH Threshold Limit Values, as amended Form of exposure: Respirable fraction. Value: REL:

Recommended exposure limit (REL) Control parameters: 2 mg/m3 Update: 2005 Basis:

NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended Expressed as : as Al Value: TWA: Time weighted average Control parameters: 2 mg/m3 Update: 1989 Basis: Z1A:US.

OSHA Table Z-1-A (29 CFR 1910,1000), as amended Expressed as : as Al

Engineering Controls Ensure that eyewash stations and safety showers are close to the workstation location. Legal

requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing dust. Engineering measures : Use with local exhaust ventilation.

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Personal Protection

Eye protection: Safety goggles Hand protection: Impervious gloves Gloves must be inspected prior to use. Replace when worn. Skin and body protection: Protective suit Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. Hygiene measures: Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink. Avoid contact with the skin and the eyes.

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Not applicable



Safety Data Sheet

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Evaporation Rate

Lower

Section 9: Physical and Chemical Properties

Appearance Solid. Color: colourless

Melting Point Not available рΗ 2.5 - 3.5 at , 20 °C **Freezing Point** Not applicable Vapor Pressure Not applicable. **Boiling Point/Range** Not available **Vapor Density** Not available. **Decomposition temperature** No decomposition if used as **Viscosity** Not available.

Partition Coefficient: n-octanol/water

Flash Point Not applicable. Autoignition temperature not auto-flammable

Flammability

The product is not flammable

Flammability or Explosive Limits:

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Not applicable

Upper Not applicable

Solubility(ies) 477 g/l water

Other Density: ca. 2.4 g/cm3 at 20 °C Bulk density: ca. 700 kg/m3

Not available

Section 10: Stability and Reactivity

Reactivity Not available

Chemical Stability Stable under normal conditions.

Hazardous Polymerization Hazardous polymerisation does not occur.

Conditions to Avoid Protect from atmospheric moisture and water.

Incompatible Materials Bases

Hazardous Decomposition Products

Aluminum oxides Hydrogen chloride gas

Section 11: Toxicological Information

RTECS Not available.

Acute Toxicity

LD50: 3,470 mg/kg Species: Rat, female Test substance: aluminium chloride, anhydrous LD50: 3,450 mg/kg Species: Rat,

male Test substance: aluminium chloride, anhydrous

Skin Corrosion/Irritation

Irritating to skin.

Serious Eye Damage/Irritation

Irritating to eyes.

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive Toxicity

Not available

Routes of Entry

Eye. Skin.

Symptoms Related to Exposure

Not available

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Potential Health Effects

Not available.

Target Organ(s) Not available

Section 12: Ecological Information

Ecotoxicity

Toxicity to fish LC50: 27.1 mg/l Exposure time: 96 h Species: Gambusia affinis (Mosquito fish) static test LC50: 36.6 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Test substance: aluminium chloride, anhydrous flow-through test NOEC: 0.25 mg/l Exposure time: 42 d Species: Oncorhynchus mykiss (rainbow trout) Test substance: aluminium chloride, anhydrous Toxicity to daphnia and other aquatic invertebrates static test EC50: 27.3 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test substance: aluminium chloride, anhydrous Reproduction Test NOEC: 0.8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: aluminium chloride, anhydrous static test EC50: 7.4 mg/l Exposure time: 48 h Species: Ceriodaphnia (water flea) Test substance: aluminium chloride, anhydrous Toxicity to bacteria: LC50: > 1,000 mg/l Exposure time: 14 d Species: Eisenia sp. (annelids) NOEC: 100 mg/l Exposure time: 42 d Species: Eisenia sp. (annelids)

Persistance and Degradability

Not available.

Bioaccumulative Potential

Not available.

Mobility in Soil

Not available.

Other Adverse Effects

Harmful to aquatic organisms.

Section 13: Disposal Considerations

Waste Disposal

Observe all Federal, State, and Local Environmental regulations.

Disposal of Container

Not available.

Other Considerations

Not available.

Section 14: Transport Information

DOT Classification

DOT Not dangerous goods

Section 15: Regulatory Information

Regulations

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards: Acute Health Hazard California Prop. 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other

WHMIS CLASS E: Corrosive solid. (Canada); DSCL (EEC) R36/38- Irritating to eyes and skin.; Gloves.; Synthetic apron.; Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.; Splash goggles.

Section 16: Other Information

Changes to MSDS from previous date are due to the following: Change from AlliedSignal logo to Honeywell logo

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