JHD®

# Material Safety Data Sheet

## 1. Identification of the substance/preparation and of the company/undertaking

*Identification of the product*
Product name: Aluminum chloride
*Manufacturer/supplier identification*
Company: Guangdong Guanghua Sci-Tech Co.,Ltd
Address: No.295 Daxue Road,Shantou
PostCode:515061
E-mail: export@jinhuada.com
Emergency telephone No.: +86-754-82515813.
Fax No.: +86-754-88221999

## 2. Hazards identification

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Skin corrosion (Category 1B)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Causes burns.
Label elements

Signal word Danger
Hazard statement(s)
H314 Causes severe skin burns and eye damage.
Precautionary statement(s)
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
Supplemental Hazard none

## 3. *Synonyms*

Aluminum chloride
CAS-No.: 7446-70-0
*M:* 133,34g/mol
Molecular formula: $AlCl_3$

## 4. First aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. Fire-fighting measures

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture
Aluminum oxide, Hydrogen chloride gas
Hydrogen chloride gas, Sodium oxides
Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

## 6. Accidental release measures

Personal precautions
Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.
Environmental precautions
Do not let product enter drains.
Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

Appropriate engineering controls
General industrial hygiene practice.
Personal protective equipment
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Do not let product enter drains.

## 9. Physical and chemical properties

Form: powder
Colour: not available
Odour: not available
pH value: 2,4 at 100 g/l at 20℃

Melting point: 190℃
Boiling point: not available
Ignition temperature: 187,7
Flash point: not available
Autoignition temperature: not available
Explosion limits
lower: not available
upper: not available
Density (25 °C) : 0,9 g/mL at 25℃
Bulk density: not available
Solubility in
water (20 °C) : not available
diluted acids (20 °C) : not available
Thermal decomposition: not available

## 10. Stability and reactivity

Chemical stability
Stable under recommended storage conditions.
Conditions to avoid
no data available
Materials to avoid
Strong oxidizing agents
Hazardous decomposition products
Other decomposition products - no data available

## 11. Toxicological information

Acute toxicity
no data available
Skin corrosion/irritation
no data available
Serious eye damage/eye irritation
no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
no data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Specific target organ toxicity - single exposure
no data available
Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available
Potential health effects

| | |
|---|---|
| Inhalation | May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. |

Ingestion May be harmful if swallowed. Causes burns.
Skin May be harmful if absorbed through skin. Causes skin burns.
Eyes Causes eye burns.

## 12. Ecological information

Toxicity
no data available
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects
Very toxic to aquatic life.

## 13. Disposal considerations

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

## 14. Transport information

ADR/RID
UN-Number: 1726 Class: 8 Packing group: II
Proper shipping name: ALUMINIUM CHLORIDE, ANHYDROUS

IMDG
UN-Number: 1726 Class: 8 Packing group: II
Proper shipping name: ALUMINIUM CHLORIDE, ANHYDROUS
Marine pollutant: no

IATA
UN-Number: 1726 Class: 8 Packing group: II
Proper shipping name: Aluminium chloride, anhydrous

## 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 16. Other information

General update.
*Regional representation:*
This information is given on the authorised Safety Data Sheet for your country.