MATERIAL SAFETY DATA SHEET POLYALUMINUM CHLORIDE

1. Chemical Product and Company Identification

Product identifier:

Product name:	POLYALUMINUM CHLORIDE
CBnumber:	CB0102351
CAS:	101707-17-9
EINECS Number:	215-477-2
Synonyms:	poly aluminium chloride,polyaluminum chloride

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

Relevant identified uses:	For R&D use only. Not for medicinal, household or other use.
Uses advised against:	none

Company Identification:

Company:	Chemicalbook

Address: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone: 010-86108875

2. Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Polyaluminum chloride	101707-17-9	Not stated in source

EC number: 215-477-2

Molecular formula as listed: $Al_2Cl(OH)_5$

3: Hazards Identification

Signal word: Warning

Hazard statements:

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statements:

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.

GHS pictogram: The source leaves this field blank.

4. First Aid Measures

Description of first aid measures:

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

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:
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed:
The most important known symptoms and effects are described in the labelling (see Section 3) or Section 11
Indication of any immediate medical attention and special treatment needed:
no data available

5. Fire and Explosion Data
Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture:
Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas
Technical review: Confirm the listed fire decomposition products against the supplier SDS.
Advice for firefighters:
Wear self contained breathing apparatus for fire fighting if necessary.
Further information:
no data available

6. Accidental Release Measures
Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental precautions:
Do not let product enter drains.
Methods and materials for containment and cleaning up:
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections:
For disposal see section 13.

7. Handling and Storage
Precautions for safe handling:
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see Section 3.
Conditions for safe storage, including any incompatibilities:
2-8℃. Keep in dry area.
Specific end use(s):
Apart from the uses mentioned in section 1, no other specific uses are stipulated:

8. Exposure Controls/Personal Protection
Components with workplace control parameters:
Contains no substances with occupational exposure limit values.
Appropriate engineering controls:
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:
Eye/face protection:
Face shield and safety glasses 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.
Body Protection:
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection:
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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

Information on basic physicochemical properties:

Appearance / Form:	no data available
Odor:	no data available
Odor Threshold:	no data available
pH:	no data available
Melting point:	no data available
Boiling point/range:	no data available
Flash point:	no data available
Evapouration rate:	no data available
Flammability:	no data available
Upper/lower flammability:	no data available
explosive limits:	no data available
Vapor pressure:	no data available
Vapour density:	no data available
Relative density:	no data available
Water solubility:	no data available
Partition coefficient:	no data available
Auto-ignition temperature:	no data available
Decomposition Temp:	no data available
log Pow:	no data available
Viscosity:	no data available
Explosive properties:	no data available
Oxidizing properties:	no data available

Other safety information:
no data available

10. Stability and Reactivity Data

Reactivity:
no data available

Chemical stability:
Stable under recommended storage conditions.
Possibility of hazardous reactions:
no data available
Conditions to avoid:
no data available
Incompatible materials:
no data available
Hazardous decomposition products:
no data available
Other decomposition products:
no data available
In the event of fire:
see section 5

11. Toxicological Information
Acute toxicity:
Classified based on available data. For more details, see Section 3
Skin corrosion/irritation:
Classified based on available data. For more details, see Section 3
Serious eye damage/irritation:
Classified based on available data. For more details, see Section 3
Respiratory or skin sensitisation:
Classified based on available data. For more details, see Section 3
Germ cell mutagenicity:
Classified based on available data. For more details, see Section 3
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.
ACGIH:
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity:
Specific target organ toxicity - single exposure:
Classified based on available data. For more details, see Section 3
Specific target organ toxicity - repeated exposure:
Classified based on available data. For more details, see Section 3
Aspiration hazard:
Classified based on available data. For more details, see Section 3
Additional Information:
Classified based on available data. For more details, see Section 3 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity:
no data available
Persistence and degradability:
no data available
Bioaccumulative potential:
no data available
Mobility in soil:
no data available
Results of PBT and vPvB assessment:
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted:
Other adverse effects:
no data available

13. Disposal Considerations

Waste treatment methods:
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging:
Dispose of as unused product.

14. Transport Information

UN number:
ADR/RID: Not stated in source
IMDG: Not stated in source
IATA-DGR: Not stated in source
UN proper shipping name:
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
Transport hazard class(es):
ADR/RID: Not stated in source
IMDG: Not stated in source
IATA-DGR: Not stated in source
Packaging group:
ADR/RID: Not stated in source
IMDG: Not stated in source
IATA-DGR: Not stated in source
Environmental hazards:
ADR/RID: -
IMDG: -
IATA-DGR: -
Special precautions for user:
Further information : No data available:

15. Other Regulatory Information

SARA 302:
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313:
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
Massachusetts Right To Know Components:
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components:
New Jersey Right To Know Components:
California Prop. 65 Components:
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information
Reference: ChemicalBook, Polyaluminum Chloride SDS, Revision 1, 31 May 2026.
Full text of H-Statements referred to in Section 3.
Acute Tox. Acute toxicity
Eye Irrit. Eye irritation
Skin Irrit. Skin irritation
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

EXCLUSION OF LIABILITY
The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.