

SAFETY DATA SHEET			S-PF-LQ-004(STD-E013)
PRODUCT : POLYALUMINIUM CHLORIDE Light Yellow or White POWDER	REV.0	Page.1/5	Date: 21/10/20

NANJING EVEREST CO., LTD

1. Identification of the substance and of the supplier

Product : Catalog no : S-PF-LQ-004(STD-E013)
Product name : POLYALUMINIUM CHLORIDE 30%
CAS NO. : 1327-41-9 EC/EINECS : 215-477-2 RTECS:-
UN NO.: - EC Annex 1 Index : -

Recommended use of the chemical and restrictions on use : -

Company identification

Manufacturer/Supplier: NANJING EVEREST CO.,LTD

EAST JING SHISI ROAD, INDUSTRIAL ZONE, LISHUI DISTRICT, NANJING CITY,
JIANGSU PROVINCE, CHINA
Tel./Fax: +86 510 82709676 MP.+86 18805282101

2. Hazards Identification

GHS Classification of the substance or mixture

Skin corrosion/irritation

Category 2

Serious eye damage/Eye irritation

Category 2

Hazard Pictograms :



Warning

Signal word

Hazard statements :

Causes skin irritation.

Causes serious eye irritation.

Harmful if swallowed.

Precautionary statements

Keep out of reach of children.

Read label before use.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

If contact Skin: Wash with plenty of soap and water.

If contact Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

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present and easy to do. Continue rinsing.
 If Swallowed : seek medical advise if you feel unwell.
 If Inhaled : Rinse mouth.
ther hazards which do not result in classification : -

3. Composition/ Information on Ingredients

CAS No.	Substances :	Percent
1327-41-9	Chemical name : POLYALUMINIUM CHLORIDE Molecular Formula : $Al_2(OH)_n C_{16-n})_m$	30 (as aluminium oxide)
7732-18-5 Not related	AL2O3 CONTENT Other (moisture) Water insoluble	69%min 1% max

4. First Aid Measures

Skin contact : Remove contaminated clothing ,rinse skin with water.
Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing at least 15 minutes ,seek medical advice.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. seek medical advice .
Ingestion: Rinse mouth.Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. seek medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

5. Fire Fighting Measures

Extinguishing Media: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
Special Exposure Hazards:-
Hazardous Decomposition/Combustion Materials (under fire conditions): Toxic hydrochloride gases.
Special Protective Equipment: Decomposes on heating emitting toxic fumes, including those of aluminium oxide , and hydrogen chloride . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. Accidental Release Measures

Personal Precautionary Measures: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Person protective : Wear protective clothing, boots, impervious gloves and safety glasses.
Environmental Precautionary Measures: Do not let product enter drains. Contain the spillage using bunding.
Procedure for Clean Up: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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7. Handling and Storage

Precautions for safe handling :

- Avoid skin and eye contact and breathing in dust.
- Avoid handling which leads to dust formation.

Conditions for safe storage, including any incompatibilities:

- Store in a cool, dry, well ventilated place and out of direct sunlight.
- Protect from moisture.
- Store away from incompatible materials.
- Keep containers closed when not in use.

8. Exposure Controls/ Personal Protection

Appropriate engineering controls : Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Personal protective equipment :

Respiratory Protection : Self-contained breathing apparatus must be available in case of emergency. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Eye Protection : Tightly fitting safety goggles. Ensure eye bath is to hand. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and Hand Protection : Impermeable 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.

Other Personal Protection Data: -

9. Physical and Chemical Properties

1. **Appearance :** light Yellow or white powder
2. **Odour :** Mild
3. **Odour threshold :** No information available
4. **pH :** 3.5 - 5.0 (Al₂O₃ 0.3% w/v solution)
5. **Melting point / freezing point :** No information available
6. **Initial boiling point and boiling range :** No information available
7. **Flash point :** No information available
8. **Evaporation rate :** No information available
9. **Flammability (solid, gas) :** No information available
10. **Upper / lower flammability or explosive limits (% , v/v) :** No information available
11. **Vapour pressure :** No information available
12. **Vapour density (air=1) :** No information available
13. **Relative density (water = 1) :** No information available
14. **Solubility:** Soluble in water
15. **Partition coefficient : n – octanol/water (log Kow) :** No information available
16. **Auto-ignition temperature :** No information available
17. **Decomposition temperature :** No information available

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18. Viscosity : No information available

10. Stability and Reactivity

Reactivity : Reacts with chlorates ,chlorites.

Chemical stability : absorbs moisture or water from surrounding air.

Possibility of hazardous reactions : no data available.

Condition to avoids : moisture.

Incompatible materials : chlorates , chlorites.

Hazardous decomposition products : Hydrogen chloride.

11. Toxicological Information

Ingestion: May be harmful if swallowed.

Skin Contact : irritation.

Eye Contact: eye irritant.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways).

Additional Information: -

Numerical measures of toxicity

Acute toxicity (Oral ,rat)

LD50 : 681 mg/kg.

Acute toxicity (Oral,mice)

LD50 : 316 mg/kg.

12. Ecological Information

Ecotoxicity : No data available.

Persistence and degradability : Biodegradable.

Bioaccumulative potential : No bioaccumulation potential.

Mobility in soil : Readily absorbed into soil.

Other adverse effects : Negligible ecotoxicity.

13. Disposal Considerations

Disposal methods : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste.

Contaminated Packaging: Dispose of as unused product.

14. Transport Information

Shipping Name:	Polyaluminium chloride
UN number :	Not regulated
Transport hazard class	Not dangerous
Packing group, if applicable:	Not dangerous
Environmental hazards	Not dangerous
Transport in bulk :	Not dangerous
Special precautions :	Not related

IMDG/IMO not regulated” (Need clear conclusions such as “ IMDG/IMO not regulated” but not only under class in MSDS section 14.)

the substance is not subject to IMO/IMDG code according to special provision 177

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15. Regulatory Information

European Union

No data available

16. Other Information

Key literature reference and source of data used to compile the SDS

1. European chemical Substances Information System (ECB): ESIS, Annex VI
<http://ecb.jrc.ec.europa.eu/esis/>
<http://ecb.jrc.ec.europa.eu/classification-labelling/clp/ghs/search.php>
2. The National Institute for Occupational Safety and Health (NIOSH):NIOSH Pocket Guide to Chemical Hazards
<http://www.cdc.gov/niosh/npg/npgdcas.html>
3. International Programme on Chemical Safety (IPCS): Chemical Safety Information from Intergovernmental Organizations (INCHEM)
<http://www.inchem.org/>
4. United States National Library of Medicine: ChemIDplus Lite (ID PLUS)
<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>
5. Occupational Safety & Health Administration (OSHA)
<http://www.osha.gov/dts/chemicalsampling/toc/chmcas.html>
6. New Jersey Department of Health (DOH)
<http://web.doh.state.nj.us/rtkhsfs/qsearch.aspx>.
7. Environmental Risk Management Authority: HSNO Chemical Classification Information Database (CCID)
<http://www.ermanz.govt.nz/Chemicals/ChemicalSearch.aspx>
8. International Uniform Chemical Information Database (IUCLID)
<http://ecb.jrc.ec.europa.eu/esis/index.php?PGM=dat>
9. United Nations Recommendations on the Transport of Dangerous Goods (UNRTDG)
http://www.unece.org/trans/danger/publi/unrec/rev14/English/05E_Index.pdf
10. CRC Handbook of Chemistry and Physics 91st edition 2010-2011
11. Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices (ACGIH)

The Information given here is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control. The user therefore assumes all risks of use of the product and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product.

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