MATERIAL SAFETY DATA SHEET

Poly Aluminium Chloride

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:	Poly Aluminium Chloride
CAS Number:	1327-41-9
EC Number:	215-477-2

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

Identified use: Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company name:	East Harbour Group Ltd Miranda House, The Quay Harwich, Essex, CO12 3HH United Kingdom
Telephone:	+44 (0) 333 242 0100
Email:	info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone:	0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Mild Irritant

2.2 Label elements

Safety Phrases: Keep out of reach of children. In case of contact with skin wash immediately with plenty of water.

Section 3: Composition/information on ingredients

3.2 Mixtures

CAS #	Content (W/W)	Ingredients
1327-41-9	-	Poly Aluminium Chloride

Poly Aluminium Chloride

Chemical name: Poly Aluminium Chloride
Common name / synonyms: PAC, Poly Aluminium Hydrochloride

Section 4: First aid measures

4.1 Description of first aid measures
In case of skin contact: Wash with copious amounts of water.
If swallowed: Do not induce vomiting. Administer a 5% solution of Sodium bicarbonate followed by milk. Obtain medical attention.
If inhaled: Remove from contaminated area. Obtain medical attention.

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:
Suitable extinguishing media: Poly Aluminium Chloride is non-flammable.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.

6.2 Environmental precautions
Where a spillage or contaminated washings causes contamination of water courses, drains or vegetation inform relevant authorities.

6.3 Methods and material for containment and cleaning up
Contain all spillage of PAC. Dispose of using licensed waste disposal contractors.

Section 7: Handling and storage

7.1 Precautions for safe handling
Wear protective clothing. Safety showers and eye wash facilities should be provided in areas where an accidental exposure is possible. Once diluted it should be used as soon as possible.

7.2 Conditions for safe storage, including any incompatibilities
Poly Aluminium Chloride becomes unstable when stored or transported for some time at temperatures higher than 40 degree C. PAC tends to hydrolyse to a white turbid solution and loses effectiveness when it is kept long a diluted solution of less than approximately 3% (as Al2O3).

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Poly Aluminium Chloride

Section 8: Exposure controls/personal protection

8.1 Personal protective equipment
Protective overalls, rubber gloves, eye goggles/face shield, hard hat, acid resistant boots.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Amber – light pale yellow
Physical State	Liquid
Odor	Odourless
Odor Threshold	No information available
pH	2.3 + 0.3 (3.5 + 0.5 of 5% aqueous solution) - (at g/l H20) at 20 degrees C
Melting Point/Range	No information available
Boiling Point/Range	No information available
Flash Point	Non flammable
Evaporation Rate	No information available
Flammability (solid, gas)	Non flammable
Explosion Limits	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity / Density	No information available
Bulk Density	1.2 +0.05 – G/Cm3 at 20 degrees C
Water Solubility	No information available
Solubility in other solvents	No information available
Partition Coefficient	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available

Section 10: Stability and Reactivity

10.1 Reactivity	No reaction
10.2 Chemical Stability	Poly Aluminium Chloride is stable at normal temperatures and pressures
10.3 Possibility of hazardous reactions	No information available
10.4 Conditions to avoid	No information available
10.5 Incompatible materials	No information available
10.6 Hazardous decomposition products	No information available

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Section 11: Toxicological Information

Basis / Alkalis : Bulk precipitation occurs with evolution of heat.
Skin/Eye: Causes Irritation
Skin absorption : Repeated skin exposure may cause Dermatitis
Ingestion: Irritation of mucous membrane brought into direct contact.
Toxicity : Acute oral toxicity in mice 34.5 g/kg.

Section 12: Ecological Information

The product undergone tests with various concentrations, proved to be entirely harmless to aquatic life up to concentration of 200 mg/l expressed as Al2O3 (corresponding to 2 g/l of PAC AC/100 S).

Section 13: Disposal considerations

Dispose of PAC using a licensed waste disposal contractor.

Section 14: Transport Information

UN No. / GGVE / GGVS : See IMDG Code ICAO / IATA – DGR : Class 8 UN 1760
IMDG Code : IMDG Code Class N degree 8UN 1760 IMDG Code Page 8070
RID / ADR : Class 8.5 degree C

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

Symbol(s):	Mild Irritant
R-Phrases(s):	R38 – Irritating to skin
S-Phrases(s):	S26 – Keep out of reach of children In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice. S2 – Keep out of reach of children

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