



UNCHING INDUSTRY CO., LTD.

109/20 Moo 9, Setthakit 1 Rd., T. Suanluang, A.Krathumbaen, Samutsakhon 74110.

Tel: 02 - 810 - 1345 Fax: 02 - 810 - 1346

SAFETY DATA SHEET

POLY ALUMINIUM CHLORIDE

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

Product name	POLY ALUMINIUM CHLORIDE
Trade name	PAC
Chemical Name	Poly Aluminium Chloride
Formula	$Al_2(OH)_m Cl_{3-n-m}$
Manufacturer	UNCHING INDUSTRY CO., TLD 109/20 Moo 9, Setthakit 1 Rd., T. Suanluang, A.Krathumbaen, Samutsakhon 74110 Tel 02 - 810 - 1345, 034 - 446 - 496 Fax 02 - 810 - 1346

2. Hazards identification

Pictogram



Signal Word

WARNING

Hazard Statement

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients

Product Name	CAS Numbers	Proportion
POLY ALUMINIUM CHLORIDE	1327-41-9	10 %
HYDROCHLORIC ACID	7647-01-0	0.5 %
WATER	7732-18-5	89.5 %

4. First aid measures

After skin contact : Wash off with plenty of water using a soap.

After eye contact : Rinse out with plenty of water.

After inhalation : Remove from contaminated area.

Medical information : Seek immediate medical attention.

5. Fire-fighting measures

Extinguishing Media : Non Flammable

Flash point : Non Flammable

Flammable limits :

Lower Explosive Limit (LEL) : None

Upper Explosive Limit (UEL) : None

Autoignition Temperature : None

Material to Avoid : Oxidizing agent, chlorites and Hypochlorite attacks most metals liberating Hydrogen.

6. Accidental release measures

Disposal Methods : Tightly closed.

Special Protection Information

Fire and Explosion Prevention : Non Flammable.

Ventilation : Ventilate area.

7. Handling and storage

Handling :

Avoid contact with skin, eyes, and clothing. Avoid breathing dust or mist.

Keep away from metals, organic materials, nitrates, chlorates and carbides.

Storage :

Bulk quantities should be stored in ebonite coated, steel rubber, FRP or plastic tank.

For small packages, polyethylene or double skinned polyethylene.

Store indoors away from direct heat or sunlight. Avoid extreme temperatures.

May become unstable. When stored for long time at temperatures higher than 40°C. PAC tends to a white turbid solution and loses effectiveness

8. Exposure controls/personal protection

Respiratory Protection Type: Wear a mask.

Hand Protection: Gloves and protective clothing made from rubber.

Eye Protection: Safety glasses.

Other Protection: Protective clothing should be selected specifically for the working place.
Enclosed shoes are required in the manufacturing area. Take a shower after working with substance.

9. Physical and chemical properties

Boiling Point : 102 °C

Melting Point : -12 °C

Vapour Pressure : Not available.

Solubility in water : Soluble.

Specific Gravity {H₂O} : 1.19 (at 20 °C)

Evaporating Rate : Non-volatile.

Appearance Color and Odor : Clear colourless liquid or light brown or light yellow.

pH-Value : 3.5 – 5.0 (1% in water)

10. Stability and reactivity

Chemical Reactivity : Stable.

Conditions to avoid Avoid Contact with bases, chlorides, sulphites, hypochlorites and temperatures above 40 °C

Hazardous Decomposition Product : Hydrogen chloride.

11. Toxicological information

Ways of Exposure : If swallowed.

Local Effects (Skin, Eyes, mucous Membranes) :

Eyes : If in solution causes eye irritation.

Skin : If in solution causes skin irritation.

Effect of Overexposure Short – term : None.

Effect of Overexposure Long – term : None.

TLV – TWA : 10 mg/m³ Total inhalable dust.

12. Ecological information

Ecotoxicity : No information available.

Environmental Impact : No information available.

13. Disposal considerations

Contact either the authorities in charge or approved waste disposal companies.

14. Transport information

UN number : 1760

Class: 8

UN proper shipping name : POLY ALUMINIUM CHLORIDE

15. Regulatory information

EU Legislation

This product has been approved as a chemical used for the water treatment.

16. Other information

-
