

MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

Technical Name

Poly Alluminium Chloride

Synonyms

PAC, Poly Alluminium Hydrochloride

Chemical Formula(Al_n(OH)_m Cl_{3n-m})**Chemical Classification**

Acid

Hazard Class

8-Corrosive

CAS Registry No.

1327-41-9

UN NO.

1760

Haz Chem Code**Hazardous waste ID No.**

Product Use : Used as a Coagulant for the treatment of drinking water

Used as a sizing agent in Paper industry. Pharmaceutical Industry

HAZARDOUS INGREDIENTS

Hazardous Ingredient	Concentration	CAS/UN NO	LC 50	LD 50
Poly alluminium chloride	30%	1327-41-9	---	----

PHYSICAL AND CHEMICAL PROPERTIES

State Powder	Colour Amber-light yellow	Odour Odourless		
Molecular Weight Formula : (Al _n (OH) _m CL _{3n-m}) _x Containing 9.5 w/w /AL ₂ O ₃ min	Bulk Density 0.71	Water Solubility Highly soluble miscible in all properties	Ph 2.3	
Vapour pressure 30 mm Hg at 0oc	Vapour density ---	Freezing Point 10oc		
Melting Point ----	Boiling Point ----	Others ----		

FIRE / EXPLOSION HAZARD DATA

Flammability Non Flammable	TDG Flammability ---	Flash Point ---
Auto ignition temperature ---	Explosive range ---	Hazardous combustion products ----
Sensitivity to chemical impact ---		Sensitivity to static discharge ---

REACTIVITY DATA

Chemical Stability

Stable at normal temperature and pressure

Incompatibility

iron salts, aluminum salts

Reactivity

reacts aggressively with some metal surfaces (e.g. galvanized metal, aluminium, copper, zinc, and alloys of these metals)

Dangerous reaction Products

react with metal to liberate flammable hydrogen gas

HEALTH HAZARD DATA

Route of entry

Skin Contact, ingestion, inhalation

Permissible limits

TLV(c).2Mg/M3

Lethal dose

Effects on acute exposure

Skin Contact: May cause burns - mild burns with 10%
Eye Contact : May cause corneal damage
Ingestion :- May cause damage to mucous, membranes, nausea, vomiting

Effects on chlorine exposure

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Sensitization to Material

Synergistic materials

PREVENTIVE MEASURES

Storage requirement :

Rubber lined tanks, plastic tanks
glass reinforced plastic tanks

Handling Methods

Pumping

Engineering Controls

Non Combustible & Corrosion
resistant floor. dike wall

personal protective equipment

Protecting clothing rubber gloves,
Eye goggles / face shield. Gum boots

Leak, spill handling

Do not allow run off to enter sewers or water ways small spills of liquid, absorb with : and large spills of liquid, contain then neutralise with caustic soda solution and dispose.

Water disposal

Disposal of PAC using a licensed waste
disposal contractor

Special Shipping information

EMERGENCY / FIRST - AID MEASURES

Fire extinguishment

Non flammable

Special Procedure

First - Aid

Eyes & Skin
Ingestion

Wash with running water at least 15 minutes
: Do not induce vomiting, give small quantity of water to dilute the substance seek medical attention.

Antidotes

ADDITIONAL INFOBMTION

Poly alluminium chloride becomes, unstable when quantity of water to temperture higher than 40oC

MANUFACTURER / SUPPLIER / CONSUMER DATA

THE ANDHRA SUGARS LIMITED

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