

Poly Aluminium Chloride :

Point no. 1	Chemical product and company identification.	
Chemical product	Poly Aluminium Chloride Liquid - 1Q%/14%/18% (AI3Q3)	
Name of Manufacturing Company	M/s. Gujarat Alkalies & Chemicals Limited. P.O. Petrochemicals, Dist. Vadodara Pin code no. 391 346 State – Gujarat, INDIA Telephone No. 2232681, 2232981 –82, 2232039, 2230384 Fax No. 2232130	
Point No. 2	Composition: Chemical Name Poty Aluminium Chloride Chemical Formula Aln(OH)m Gl^k CAS Number 1327-41 -9 El NCES Number 254-400-7 Concentration (AI203) 10% / 14% /18% (AfeQa)	
Point No. 3	HazaNs Identification; See Section 15	
Concentration(AI203)	10% / 14% /18% (AfeQa)	
	HazaNs Identification; See Section 15	
Point No. 4	First Aid Measure Eyes :- Wash immediately with lukewarm water during 15 minutes, keeping the eyelid wide open. Then wash with 2% solution of Sodium Bicarbonate. If irritation appears, consult a physician. Skin :- Wash the affected area with soap and water. If irritation appears, consult a physician. Ingestion :- If the affected person [3 conscious, give 2 or 3 glass of water, then induce vomiting, Consult a physician.	
Point No. 5	Fire Fighting Measures Fire; If the product is affected by a fire, use water spray	
Point No. 6	Accident Release Measures	
	a. Personnel Precautions	Avoid contact with the product.
	b. Environment Protection	The product is not a water streams contaminant.
	c. Clean-up Procedures	Fence the spill area. Mix with inert material and remove. Clean with plenty of water until complete removal.
Point No. 7	Handling and storage	
	7.1 Handling	Avoid contact with eyes and skin. Avoid ingestion. During product handling use adequate protection equipment (See Section-8)
	7.2 Storage	Store the product in acid resistant FRP tank or in HMHDPE containers
	7.3 Materials to avoid	Ferrous Metals.
Point No. 8	Exposure Controls/Personal Protection 8.1 Individual Protection Breathing In areas not well ventilated, Hands, Rubber Gloves. Eyes. Safety Goggles. Do not wear contact lenses.	

	<p>Skin and Body Wear suitable protecting clothing.</p> <p>8.2 Hygienically Measures.</p> <p>Do not eat, drink or smoke during product manipulation. Wash your hands after product handling.</p> <p>Handle the product accordinalv to safety and industrial hygiene procedures.</p>
Point No. 9	<p>Physical and Chemical Properties</p> <p>9.1 Appearance Clear Liquid</p> <p>9.2 Colour Pale Yellow</p> <p>9.3 Odor Negligible</p> <p>9.4 Boiling Temperature 120 °C</p> <p>9.5 Freezing point -20°C</p> <p>9.6 pH (5%) 3-4</p> <p>9.7 Flammability Not Flammable</p> <p>9.8 Explosivity Not Explosive</p> <p>9.9 Oxidant Properties not Oxidant</p> <p>9.10 Relative density (gr/crn3 a 2QUC) 1.2 +/- 0.04, 1.32 +/- 0.02, 1.37 +/- 0.02 (for 10 %, 14% & 18 % respectively)</p> <p>9.11 Solubility in water (20°C) Highly Soluble</p>
Point No. 10	<p>Stability and Reactivity</p> <p>The Product is stable. Not hazardous polymerization reaction occurs, if the product is kept under its original conditions</p>
Point No. 11	<p>Toxicological information</p> <p>11.1 Collateral Effects. Conjunctivitis due to product hydrolysis is caused by contact with the mucus.</p> <p>11.2 Local effects / irritating Properties. Prolonged contact wttth skin caused mild irritation.</p> <p>11.3 Sensitization. Such cases have not been reported.</p> <p>11.4 Carcinogeniclty. No data available.</p> <p>11.5 Acute Toxicity. LD 50 (oral) in mice > 21 .9 mURg</p>
Point No. 12	<p>Ecological Information.</p>

	<p>12.1 Toxicity in Water Remains in the environment as chloride and In turn contribute to acidification.</p> <p>Harmless to aquatic life up to concentration of 2 gpl of PAC 10 or equivalent</p>
Point No. 13	<p>Disposal Consideration.</p> <p>13.1 Wastes / Unused Product Disposal should be in accordance to local state or national laws.</p> <p>13.2 Contaminated Packaging. Contain all contaminated spillages for dfspcsal through licensed contractors.</p>
Point No. 14	<p>Transport Information.</p> <p>14.1 National and International Transportation.</p> <p>14.2 Raifrway Transportation ADR / RID - Class 8.5 degree C Sea Transportation ; IMDG - Class N decree 8UN 176Q,Daqe 8070 Air transportation ICAQ/IATA-class 8UN 1760 The product is considered NON HAZARDOUS according to international transport regulation.</p>
Point No. 15	<p>Regulatory Information</p> <p>15.1 1974 Health and safety at work act.</p> <p>15.2 S1 1978/1657 Control of substances hazardous to health regulations.</p> <p>15.3 S1 1991/472 TTie environment protection (Prescribed processes and substances) regulations.</p> <p>15.4 SM 992/942 Road traffic (carriage of dangerous substances in packages etc) regulations.</p> <p>15.5 S! 1992/743 TTie road traffic (carriage of dangerous substances in road tankers and tank containers) regulations.</p> <p>15.6 S1 1993/1746 Chemicals (Hazard information and packaging) regulations.</p>
Point No. 16	<p>Other Information. Information obtained herein is based in our current knowledge at the date of issuing this Safety Data Sheet,This information is given solely as a guidance for the proper use of the product in operations of handling, storage, manufacturing,transporting, disposal, etc. And does not imply any warranty regarding the product's properties. Present information refers only to the product object of this MSDS and cannot, without manufacturer's specific indication, be applied to mixture with other substances or if it is used in other process than those for which ft s intended.</p>