



## MATERIAL SAFETY DATA SHEET

### **POLYALUMINIUM CHLORIDE**

#### **SECTION 1 IDENTIFICATION**

Trade Marks and Synonyms (if any)

**Polyaluminium Chlorosulphate**

Chemical Names and Synonyms

**Polyaluminium Chloride**

Physical Form

**Colourless Liquid**

Molecular Form

**$Al_n(OH)_mCl_{3n-m}$**

Supplier Address:

**SPARCHEM, 159, ASHOKA SHOPPING CENTER**

**L.T MARG MUMBAI 400 001**

Emergency Telephone: 9867502723

#### **SECTION 2 INFORMATION ON INGREDIENTS**

Ingredients Classification CAS No.

**Polyaluminium Chloride Mild Irritant 1327-41-9**

**H<sub>2</sub>O**

#### **SECTION 3 HAZARDS IDENTIFICATION**

**Risk of damage to eyes. Prolonged contact with skin may cause possible dermatitis.**

Occupational Exposure Limit (TWA) **10mg/m<sup>3</sup> total inhalable dust**

**5mg/m<sup>3</sup> respirable dust**

#### **SECTION 4 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odour : **Colourless Liquid with little or no odour.**

pH **2.0 -2.5** Concentration: **10% as Al<sub>2</sub>O<sub>3</sub>**

Boiling Point

**102°C**

Melting Point

**-12°C**

Flash Point (deg. C)

**None**

Specific Gravity

**1.20 @ 20°C**

Autoignition (deg. C)

**None**

Flammable Limit (% by Vol. in Air)

**Non flammable**

Vapour Pressure (mm Hg)

**N/A**

Solubility in Water

**Totally**

Solubility in Other Solvents

**N/A**

Oxidising Properties

**None**

## **Sparchem**

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11/02/02

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## **SECTION 5 STABILITY AND REACTIVITY**

Stability Unstable

Stable **X**

Conditions to Avoid

Incompatibility (Materials and Conditions to Avoid) **Some oxidising agents. eg**

**Chlorites and Hypochlorites. Attacks most metals liberating Hydrogen.**

Hazardous Decomposition Products

## **SECTION 6 TOXICITY DATA**

Short term effects of over exposure when :

In contact with skin : **Irritant - after prolonged contact with skin produces sores**

**and possible dermatitis.**

In contact with eyes : **Irritates immediately and could cause severe damage which**

**could lead to permanent visual defects or even total loss of**

**vision.**

Inhaled : **Product does not fume.**

Ingested : **Very astringent to mouth, nose and throat,**

**Oral route (72hr LD50) rat=12.79g/Kg, Intraperitoneal route=1.92g/Kg**

Long Term Exposure :

## **SECTION 7 FIRST AID MEASURES**

Skin Contact : **Remove contaminated clothing and wash affected area with**

**copious quantities of water.**

Eye Contact : **Immediately irrigate with water for at least 10 minutes.**

**Seek medical attention.**

Inhalation : **Remove from contaminated area. Obtain medical attention.**

Ingestion : **Provided patient is conscious wash out mouth with water**

**and give 5% Sodium Bicarbonate solution followed by a**

**demulcent such as milk.**

Further Medical Advice : **If in doubt seek medical attention.**

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## **SECTION 8 FIRE AND EXPLOSIVE HAZARD DATA**

Would any material saturated **YES**

with this product be subject to

spontaneous combustion ?

**NO X**

Materials :

Fire Extinguishing Data

**Water or dry powder may be used in the vicinity of**

**Aluminium Sulphate, keep containers cool with copious**

**amounts of water.**

Fire Fighting Protective Equipment

**Wear full protective clothing.**

Unusual Fire and Explosive Hazards

**In contact with metals, Polyaluminium Chloride may liberate the flammable gas Hydrogen.**

## **SECTION 9 PERSONAL PROTECTION**

General Precautions : **Eye and skin protection should be used when handling Sodium Carbonate.**

Ventilation Requirements :

**None**

Respiratory Protection :

**Not normally required.**

Protective Clothing

**Gloves and Acid resistant footwear are essential.**

Eye protection :

**Goggles or full face mask.**

## **SECTION 10 HANDLING AND STORAGE**

Handling : **Avoid contact with skin and eyes**

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

Storage : **Bulk quantities should be stored in Ebonite coated Steel, rubber - lined mild - steel Glass fibre or plastic tanks.**

**For small packages polyethylene or double skinned polyethylene containers are acceptable.**

## **SECTION 11 SPILLAGE/ACCIDENTAL RELEASE**

Small Spillage : **Wash away with large quantities of water.**

Large Spillage : **Neutralise with Lime or Soda Ash then dispose of according to local regulations. Water can be used if washings can go to drain.**

Personal Precautions : **Wear full protective clothing.**

Neutralising Chemicals : **Hydrated Lime or Soda Ash.**

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## **SECTION 12 WASTE DISPOSAL**

**Neutralise with Lime and Landfill in accordance with Local Regulations.**

## **SECTION 13 ENVIRONMENTAL INFORMATION**

Environmental Fate and Distribution

**High tonnage material produced in wholly contained systems.**

**High tonnage material used in partially contained systems.**

**The substance is soluble in water.**

Persistence and Degradation

**Unlikely to cause harmful effects.**

**Remains indefinitely in the environment as Chloride.**

Toxicity **Large discharges may contribute to the acidification of effluent treatment systems and will injure treatment organisms. The product is a primary coagulant and may cause solid settlement in treatment systems.**

Effect on Effluent Treatment

**Large discharges may contribute to the acidification of effluent treatment systems and will injure treatment organisms. The product is a primary coagulant and may cause solid settlement in treatment systems.**

## **SECTION 14 REGULATORY INFORMATION**

EEC Classification : None Specified Hazard Symbol : None Specified

Risk Phrases :

Safety Phrases : **Keep out of reach of children (S2)**

**In case of contact with eyes, rinse immediately with plenty of**

**water and seek medical advise. (S26).**

## **SECTION 15 TRANSPORT INFORMATION**

UN No. **NR** UN Pack. Group ICAO/IATA Class

IMDG Class ADR/RID Class **Low Hazard** ADR/RID Item

## **SECTION 16 OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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