



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

H₂O

SECTION 3 HAZARDS IDENTIFICATION

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

Occupational Exposure Limit (TWA) **10mg/m³ total inhalable dust**

5mg/m³ 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 Al₂O₃**

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

Ref: MSDS/P01. Rev: 1

11/02/02

According to EC Directive 91/155/EEC

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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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