

| MATERIAL SAFETY DATA SHEET | | |
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers:

Product form : Substance
 Substance name : Aluminum sulphate 18hydrate
 CAS-No. : 7784-31-8
 Formula : C₂H₇NO₂

1.2 Relevant identified uses of the substance or mixture and uses advised again

Recommended use [RU]No information availableUses advised againstNo information available

1.3Details of the supplier of the safety data sheet

Company : Sujata Nutri-Pharma Pvt. Ltd.
 875/2 GIDC Estate Makarpura Vadodara 390010, Gujarat , India
 Telephone : 0265-3500351
 Website : www.sujatanutripharma.com
 Email : info@sujatanutripharma.com

1.4 Emergency telephone number

Emergency telephone : 02652630282 (9:00 to 6:00) office hours only

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Serious Eye Damage/Eye Irritation Category 1

Physical hazard
 No known physical hazards

Danger

Hazard Statements

H318 – Causes serious eye damage




2.2 GHS Label elements, including precautionary statements

Hazard pictograms (GHS-US) :



Precautionary Statements

P280 – Wear eye protection and face protection.

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P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 – Immediately call a POISON CENTER or doctor/physician

2.3 Hazards not otherwise classified (HNOC)

None identified

SECTION 3: Composition/information on ingredients

Chemical Name : Aluminum Sulphate Anhydrous, water
CAS Number : 10043-01-3, 7732-18-5
Weight % : 57-60% , 40-43%
Unique Identifiers : Not Available

Section 4: First Aid Measures

4.1 Description of first aid measures

Inhalation If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact / Absorption Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye Contact Contact lenses should never be worn when working with this product. Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.

Ingestion Do not induce vomiting. If vomiting occurs, lean victim forward to prevent breathing in vomitus. Rinse mouth thoroughly with water. Give 1-2 glasses of water to the victim to drink. If vomiting occurs naturally, rinse the mouth out again and give another 1-2 glasses of water. Do not give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.




Additional Information Advice to physician: treat symptomatically.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media Product does not burn. Where fire is involved, use any fire fighting agent appropriate for surrounding material; use water spray to cool fire-exposed surfaces.

Unsuitable Extinguishing Media Not Available

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875/2, GIDC Estate, Makarpura, Vadodara-390010

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5.2 Specific Hazards Arising From the Chemical

At above 760°C or heated in open flame, sulphur oxide (toxic, corrosive, oxidizer), sulphur trioxide (toxic, corrosive, flammable) and aluminum oxide are released. The remaining residue is caustic

5.3 Special Protective Equipment for Fire-Fighters

Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Further Information Not Available

SECTION 6: Accidental release measures

6.1 Personal Precautions / Protective Equipment / Emergency Procedures

Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Spray residue with plenty of water.

6.2 Environmental Precautions Prevent material from entering sewers.

6.3 Methods and Materials for Containment and Cleaning Up

Collect liquid and/or residue and dispose of in accordance with applicable regulations.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

7.2 Conditions for Safe Storage Store at ambient/room temperature away from sunlight in a tightly closed condition.

7.3 Incompatibilities Avoid moist air and strong bases. Incompatible with alkalis and water reactive materials such as oleum, which causes exothermic reactions

Section 8: Exposure Controls/Personal Protection

8.1 Exposure Limit(s)

| Component | Regulation | Type of Listing | Value |
|-------------------|------------|-----------------|--------------------|
| Aluminum Sulphate | OSHA | PEL-TWA | 2mg/m ³ |

8.2 Appropriate engineering controls

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

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8.2 Individual protection measures/Personal protective equipment

Eyes/Face Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Hand Protection Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.

Respiratory Protection For dusty conditions wear a NIOSH/MSHA-approved dust or mist respirator. A respiratory

protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Thermal Hazards Not Available

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical State Solid
Colour White to creamy white
Odour Odourless
Odour Threshold Not Applicable

Property

pH 3.5
Melting Point/Freezing Point Not Applicable
Initial Boiling Point and Boiling Range Not Applicable
Flash Point Not Applicable
Evaporation Rate Not Applicable
Flammability Non-Flammable
Upper Flammable Limit Not Applicable
Lower Flammable Limit Not Applicable
Vapour Pressure (mm Hg, 20°C) Not Applicable
Vapour Density (Air=1) Not Applicable
Relative Density Not Available
Solubility(ies) Soluble in water. Soluble in dilute acid; slightly soluble in ethanol;

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almost insoluble in anhydrous alcohol.

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|---|--|
| Partition Coefficient: noctanol/ water | Not Applicable |
| Auto-ignition Temperature | Not Applicable |
| Decomposition Temperature | 650-760°C |
| Viscosity | Not Applicable |
| Explosive Properties | None |
| Specific Gravity (Water=1) | 2.71 |
| % Volatiles by Volume | Not Available |
| Formula | Al ₂ (SO ₄) ₃ · 14H ₂ O |
| Molecular Weight | 342.5 g/mol |

Section 10 : Stability and Reactivity Data

10.1 Reactivity

Not available

10.2 Chemical stability

Stable under normal conditions. Avoid temperatures above 760°C as this can yield toxic and corrosive gases.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

Generation of airborne dusts, moisture, high temperatures

10.5 Incompatible materials

Avoid moist air and strong bases. Incompatible with alkalies and water reactive materials such as oleum, which causes exothermic reactions

10.6 Hazardous decomposition products

In contact with moist air and strong bases, this product hydrolyzes readily to form acidic salts. Contact with alkalis and water-reactive materials causes exothermic reactions. May corrode ferrous metals and mild steel in presence of moisture..

Section 11 : Toxicological Information

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11.1 Information on toxicological effects

Acute Toxicity Estimate

| Component | Oral LD ₅₀ | Dermal LD ₅₀ | LC ₅₀ |
|-------------------------|-----------------------|-------------------------|------------------|
| Aluminum Sulphate (60%) | 3216 mg/kg | Not Available | Not Available |

Chronic Toxicity – Carcinogenicity

| Component | IARC |
|-------------------|------------------|
| Aluminum Sulphate | Not carcinogenic |

Skin Corrosion/Irritation May become acidic following contact with moisture on the skin. Can cause mild irritation.

Ingestion May irritate the gastrointestinal tract and cause nausea, vomiting, and purging. Acute exposure can cause loss of coordination, muscle spasms, and kidney effects.

Inhalation Dust or mist inhalation may irritate nose, throat, and lungs. Product hydrolyzes in lungs to form sulphuric acid.

Serious Eye Damage/Irritation Can cause severe irritation and inflammation. Concentrated solutions may cause permanent damage or blindness.

Respiratory or Skin Sensitization Not a skin or respiratory sensitizer.

Germ Cell Mutagenicity A solution of Aluminum Sulfate in water produced positive results in cultured human cells (leukocytes), via sister chromatid exchanges, micronuclei and chromosomal aberrations). Negative results have been obtained in bacteria and cultured mammalian cells.

Reproductive Toxicity In 88 women exposed during pregnancy to excessive Aluminum Sulfate levels in drinking water, the outcome of pregnancy, fetal viability and birth weight parameters were normal compared to unexposed controls. The only significant difference found in the infants of exposed mothers was an increase in skeletal malformations of the foot.

STOT-Single Exposure Dusts of aluminum sulfate form sulfuric acid when in contact with moisture. Inhalation of dust or mist is irritating to respiratory tract.

STOT-Repeated Exposure Repeated ingestion may cause phosphate deficiency, which can weaken bones.

Aspiration Hazard Inhalation of high airborne concentrations may cause constriction of airways and can result in potentially fatal pulmonary edema.

Synergistic Materials Not Available

Section 12 : Ecological Information

12.1 Ecotoxicity

Component Aluminum sulphate anhydrous

Toxicity to Algae Not Available

Toxicity to Fish LC₅₀(Pimephales promelas,96hr): 26.7-49.4mg/L

Toxicity to Daphnia and Other Aquatic Invertebrates EC₅₀(Daphnia magna, 15min): 136mg/L

Biodegradability Not Available

Bioaccumulation Not Available

Mobility Not Available

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Other Adverse Effects May be harmful to aquatic life. Toxicity is primarily associated with acidic pH..

Section 13 : Disposal Considerations

13.1 disposal methods

Waste From Residues/Unused Products

Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Contaminated Packaging Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act

Section 14 : Transport Information

UN Number Not Regulated

UN Proper Shipping Name Not Regulated

Transport Hazard Class(es) Not Regulated

Packaging Group Not Regulated

Environmental Hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

TDG :Other Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15: Other Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 : Other Information




Revision no: 00

Revision date: 02-05-2022

Other information: None.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sujata Nutri-Pharma Pvt.Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

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