# SLS Select Education - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1

Revision date: Date printed: 16 April 2021 16 September 2024

**CHE5412SE** 

# Section 1. Identification

| 1 | Product Identifier                  | CHE5412SE  |
|---|-------------------------------------|--|
|   | Product Name                        | ALUMINIUM NITRATE 9H2O pure 250g.  |
|   | CAS Number<br>REACH Registration No | 7784-27-2<br>A registration number is not available as the substance or its uses are exempt, the<br>annual tonnage does not require a registration or the registration is envisaged for a<br>later date. |
|   | Molecular Formula                   | Al(NO,),.9H,0 = 375.13   |

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

1.1

SLS Select Education



Unit 6, Foresters Avenue Fairham Business Park Fairham Nottingham NG11 2AF UNITED KINGDOM

| Phone | 0115 9821111              |
|-------|---------------------------|
| Fax   | 0115 9825275              |
| Email | sales@scientific-labs.com |

| 1.4 | Emergency Telephone | (08:00-17:00)    | 0115 9821111 |
|-----|---------------------|------------------|--------------|
|     |                     | (24hr)           | 112          |
|     |                     | (Have this docum | ent to hand) |

# Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Oxidising solid, category 3 Skin corrosion/irritation, category 2 Serious eye damage/irritation, category 2 H272: May intensify fire; oxidizer. H315: Causes skin irritation. H319: Causes serious eye irritation.

#### 2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Warning

Hazard Pictograms



May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation.

Precautionary Statements

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection.

### Section 3. Composition

#### 3.1 Substances

| Component         | CAS No.   | EEC No.   | REACH No. | Conc w/w | CLP Classification (1272/2008/CE)     |
|-------------------|-----------|-----------|-----------|----------|---------------------------------------|
| Aluminium Nitrate | 7784-27-2 | 236-751-8 |           | >98%     | Ox. Sol. 3,Skin Irrit. 2,Eye Irrit. 2 |
| -                 |           |           |           |          |                                       |

### Section 4. First Aid

#### 4.1 Description of first aid measures

| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.  |
|--------------------------------------|---|
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.   |
| Inhalation                           | Remove from exposure.   |
| Ingestion                            | If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Personal protection for first aiders | Wear protective gloves / eye protection.  |

#### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

### **Section 5. Fire Fighting**

#### 5.1 Extinguishing media

Extinguishing MediaWater spray.Unsuitable MediaNothing specified.

#### 5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable.

#### **5.3 Advice for firefighters**

Hazards

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

## Section 6. Accidental Release Measures

| 6.1 Personal precautions, protective equipment and emergency procedures |  |  |  |
|---|--|--|--|
| Personal Protection   | Use approved personal protective equipment.  |  |  |
| 6.2 Environmental precautions   |  |  |  |
| Enviromental  | Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |  |  |
| 6.3 Methods and material for co   | ontainment and cleaning up   |  |  |
| Major Spillage  | Shovel/sweep up into container for removal Wash area down with copious amounts of water.   |  |  |
| Minor Spillage  | Wash area down with copious amounts of water.  |  |  |

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

### Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

#### 7.3 Specific end use(s)

See section 1.2.

# Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

| Long Term (8hr TWA) Short Term 15min perio |       |
|--|-------|
| FFFF                                       | ) (bd |
| Aluminium Nitrate 7784-27-2 >98%           | -     |

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

| <b>Respiratory Protection</b> | If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.                              |
|-------------------------------|--|
| Hand Protection               | Wear gloves.   |
| Eye Protection                | Use tightly fitting chemical splash proof glasses or goggles.  |
| Skin Protection               | Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn. |
| Special Hazards               | No special precautions required.   |

# Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

| Appearance            | White deliquescent crystalline material. |
|-----------------------|--|
| Odour                 | No specific odour.                       |
| pH                    | 6 @ 20°C                                 |
| Boiling Point         | Not available                            |
| Melting Point         | 73°C                                     |
| Flash Point           | Not applicable                           |
| Upper Flammable Limit | Not applicable                           |
| Lower Flammable Limit | Not applicable                           |
| Auto Ignition         | Not applicable                           |
| Explosive Properties  | No.                                      |
| Oxidising Properties  | Yes.                                     |
| Vapour Pressure       | Not applicable                           |
| Relative Density      | Not available                            |
| Water Solubility      | 42%                                      |
|                       |  |

#### 9.2 Other information

No data available.

### Section 10. Stability & Reactivity

| 10.1 Reactivity                                       | No data available.             |  |
|---|--------------------------------|--|
| <b>10.2</b> Chemical Stability                        | Stable under normal conditions |  |
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**10.3** Possibility of hazardous reactions

No data available.

- **10.4** Conditions to Avoid
- **10.5** Incompatable Materials Combustible materials. Many organic compounds.
- **10.6** Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen. Products

Do not allow to impregnate wood or other organic materials.

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

| Eyes                 | Causes serious eye irritation.                       |
|----------------------|--|
| Skin                 | Causes skin irritation.                              |
| LD50 Skin            | Not available  |
| Ingestion            | Presents no significant hazard by ingestion.         |
| LD50 Oral            | 3671mg/kg Rat  |
| Inhalation           | Presents no significant health hazard by inhalation. |
| LD50 Inhalation      | Not available  |
| TCLo                 | Not available  |
| Carcinogenicity      | No information is available.                         |
| Mutagenicity         | No information is available.                         |
| Reproductive Effects | No information is available.                         |

### Section 12. Ecological

| 12.1 | Toxicity                         | Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life. |
|------|----------------------------------|---|
|      | LC50 Algal                       | Not available   |
|      | LC50 Crustacea                   | Not available   |
|      | LC50 Fish                        | Not available   |
| 12.2 | Persistence and degradability    | No data available.  |
| 12.3 | Bioaccumulative potential        | No data available.  |
| 12.4 | Mobility in soil                 | No data available.  |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required.  |
| 12.6 | Other adverse effects            | None known at present.  |

# Section 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal Methods Contaminated Packaging Do not dispose of as domestic waste. Wash out containers with water.

## Section 14. Transport Information

| 14.1 | UN Number                    | 1438                             |                    |
|------|------------------------------|----------------------------------|--------------------|
| 14.2 | Proper Shipping Name         | Aluminium nitrate                |                    |
| 14.3 | Transport classes            |                                  |                    |
|      | UN classification            | 5.1                              |                    |
|      | Subsidiary hazard(s)         | None                             | OXIDIZING<br>AGENT |
|      | Transport category           | 3                                |                    |
|      | ADR Hazard ID                | 50                               | 5.1                |
|      | Tunnel Restriction Code      | E                                |                    |
| 14.4 | Packing Group                | III                              |                    |
| 14.5 | Environment hazards          | See section 12.                  |                    |
| 14.6 | Special precautions for user | No special precautions required. |                    |
| 14.7 | Transport in bulk            | Not transported in bulk.         |                    |
| a    |                              |                                  |                    |

# Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

| Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) |   |  |
|--|---|--|
| Classification   | Oxidising solid, category 3; Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2   |  |
| Signal word  | Warning   |  |
| Hazard Pictograms  |   |  |
| Hazard Statements  | H272, H315, H319<br>May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation.  |  |
| Precautionary Statements   | P210, P220, P221, P280<br>Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing<br>/ combustible materials. Take any precaution to avoid mixing with combustibles Wear protective<br>gloves / protective clothing / eye protection. |  |

#### 15.2 Chemical safety assessment

Assessment not required.

### Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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