

Section 1. Identification**1.1 Product Identifier** CHE5416SE

Product Name ALUMINIUM METAL GRANULES (Coarse) 250g.

CAS Number 7429-90-5

REACH Registration No 01-2119529243-45-XXXX

Molecular Formula $Al = 26.98$ **1.2 Relevant identified uses of the substance or mixture & uses advised against**

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

1.3 Supplier SLS Select EducationWilford Industrial Estate
Ruddington Lane
Wilford
Nottingham
NG11 7EP
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 document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Not classified as hazardous.

2.2 Label elements**Labelling according to regulation 1272/2008/EC**

Not classified as hazardous.

Section 3. Composition**3.1 Substances**

Not classified as hazardous.

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. OBTAIN MEDICAL ATTENTION.

| | |
|--------------------------------------|--|
| Skin | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION. |
| Inhalation | Remove from exposure. Keep warm and at rest. If conscious place in a sitting position. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION. |
| Ingestion | If conscious give plenty of water to drink. Do not induce vomiting. 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 Media | Dry chemical powder. |
| Unsuitable Media | Do not allow water to come into direct contact with material. |

5.2 Special hazards arising from the substance or mixture

| | |
|---------|--|
| Hazards | May evolve toxic fumes if involved in a fire. Reacts with water to form extremely flammable gas. |
|---------|--|

5.3 Advice for firefighters

| | |
|-------------------------|--|
| 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. Avoid breathing dust-wear respiratory protective equipment. Ensure no sources of ignition. Avoid raising dust clouds- explosion risk. |
|---------------------|---|

6.2 Environmental precautions

| | |
|---------------|--|
| Environmental | 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 containment and cleaning up

| | |
|----------------|--|
| Major Spillage | Shovel/sweep up into container for removal Wash area down with copious amounts of water. |
| Minor Spillage | Shovel/sweep up into container for removal 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 water, acids or other aqueous solutions.
Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place protected against moisture and water. Keep well protected from ingress of water and well separated from acids

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

| Component | CAS No | Concentration | Workplace Exposure Limits | | |
|------------------------------|-----------|---------------|---------------------------|-------------------------|---------|
| | | | Long Term (8hr TWA) | Short Term 15min period | |
| Aluminium metal powder, resp | 7429-90-5 | >99.5% | - | - | 4.0 ppm |

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

| | |
|------------------------|--|
| Respiratory Protection | Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits. |
| Hand Protection | Wear gloves. |
| Eye Protection | Use tightly fitting chemical splash proof glasses or goggles. |
| Skin Protection | Avoid contact with skin. |
| Special Hazards | No special precautions required. |

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------|---|
| Appearance | Fine silvery-grey metallic powder. |
| Odour | No specific odour. |
| pH | Not applicable |
| Boiling Point | 2500°C |
| Melting Point | 660°C |
| Flash Point | Not applicable |
| Upper Flammable Limit | Not applicable |
| Lower Flammable Limit | Not applicable |
| Auto Ignition | Not applicable |
| Explosive Properties | Can form explosive dust clouds. |
| Oxidising Properties | No. |
| Vapour Pressure | Not applicable |
| Relative Density | 2.7000 |
| Water Solubility | Reacts violently with water evolving a flammable gas which may explode or catch fire. |

9.2 Other information

No data available.

Section 10. Stability & Reactivity

| | |
|---|--|
| 10.1 Reactivity | No data available. |
| 10.2 Chemical Stability | Stable under normal conditions but spontaneously flammable in air above 220C. |
| 10.3 Possibility of hazardous reactions | No data available. |
| 10.4 Conditions to Avoid | Avoid contact with water or water vapour. |
| 10.5 Incompatible Materials | Contact with water evolves flammable hydrogen gas. Acids, acid chlorides, alkalies, diethyl ether, halogenated solvents, oxidising agents, copper oxide mercury and its salts, nitrates, nitrites and silver chloride. |
| 10.6 Hazardous Decomposition Products | Decomposes to emit highly irritant fumes. |

Section 11. Toxicological Information

11.1 Information on toxicological effects

| | |
|-----------|--|
| Eyes | The dust is irritating to the eyes. Particles deposited in the eye may cause necrosis of the cornea. |
| Skin | Presents no significant hazard by skin contact. |
| LD50 Skin | Not available |

| | |
|----------------------|---|
| Ingestion | Low order of acute toxicity. |
| LD50 Oral | Not available |
| Inhalation | Prolonged exposure to dust or fume concentrations above the occupational exposure limits will produce irritation of the eyes and respiratory tract. Inhalation of high concentrations of dust may cause dyspnoea, cough, weakness and aluminosis. |
| LD50 Inhalation | Not available |
| TCLo | Not available |
| Carcinogenicity | Not considered to be a carcinogen. |
| Mutagenicity | Not considered to be a mutagen. |
| Reproductive Effects | No information is available. |

Section 12. Ecological

| | |
|--|--------------------------|
| 12.1 Toxicity | None unusual. |
| 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 | Small amounts may be carefully decomposed in a large excess of water. |
| Contaminated Packaging | Use a licensed waste disposer. |

Section 14. Transport Information

| | |
|--|----------------------------------|
| 14.1 UN Number | Non-restricted |
| 14.2 Proper Shipping Name | Non-restricted |
| 14.3 Transport classes | |
| UN classification | None |
| Subsidiary hazard(s) | None |
| Transport category | None |
| ADR Hazard ID | Non-restricted |
| Tunnel Restriction Code | Non-restricted |
| 14.4 Packing Group | None |
| 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. |

Section 15. Regulatory Information

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

Not classified as hazardous under Classification, Labelling & Packaging of Substances & Mixtures Regulations (1272/2008/CE).

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.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 21 April 2021

Reviewed by chemist: 21 April 2021

Printed date: 25 January 2022

Copyright: 2022 SLS Select Education