

Camlab Limited – Material Safety Data Sheet

1. Identification

Product Code CC/0033-CH

Product Name **ALUMINIUM METAL GRANULES (stabilized) (Fine)**

Molecular Formula **Al =26.98**

CAS Number **7429-90-5**

Supplier: **CAMLAB LIMITED**

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2. Composition

| Component | CAS No | EEC No | Conc w/w | Classification & Risk Phrases | Exp (See 8.1) |
|------------------------------|-----------|-----------|----------|-------------------------------|---------------|
| Aluminium metal powder, resp | 7429-90-5 | 231-072-3 | > 99.5% | F : R10,R15 | WEL |

3. Hazards Identification



Flammable. Contact with water liberates highly flammable gases.

4. 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.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire. Reacts with water to form extremely flammable gas.

Extinguishing Media Dry chemical powder.

Unsuitable Media Do not allow water to come into direct contact with material.

6. Accidental Release Measures

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|---------------------|---|
| 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. |
| 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. |
| 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. |

7. Storage & Handling

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| Handling Precautions | Avoid contact with water, acids or other aqueous solutions. Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits. |
| Storage Conditions | Store in a dry place protected against moisture and water. Keep well protected from ingress of water and well separated from acids |

8.1 Workplace Exposure Limits

| | | | | | |
|---------------------------|----------------------------|---|-----|-------|--------|
| Workplace Exposure Limits | Long Term (8hr TWA): | - | ppm | 4.000 | mg m-3 |
| | Short Term (15min Period): | - | ppm | - | mg m-3 |

8.2 Personal Protection

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|-------------|--|
| Respiratory | Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits. |
| Hands | Wear gloves. |
| Eyes | Use chemical splash proof glasses or goggles. |
| Skin | Avoid contact with skin. |

9. Physical & Chemical Properties

| | |
|-----------------------|---|
| Appearance | Fine silvery-grey metallic powder. |
| Odour | No specific odour. |
| pH | Not available |
| Boiling point | 2500.0 °C |
| Melting point | 660.0 °C |
| Flash point | Not available |
| Upper Flammable Limit | Not available |
| Lower Flammable Limit | Not available |
| Auto Ignition | Not available |
| Explosive properties | Can form explosive dust clouds. |
| Oxidising Properties | No. |
| Vapour Pressure | Negligible |
| Relative Density | 2.7000 °C |
| Water Solubility | Reacts violently with water evolving a flammable gas which may explode or catch fire. |

10. Stability & Reactivity

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|----------------------------------|--|
| Chemical Stability | Stable under normal conditions but spontaneously flammable in air above 220C. |
| Conditions to Avoid | Avoid contact with water or water vapour. |
| Materials to Avoid | 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. |
| Hazardous Decomposition Products | Decomposes to emit highly irritant fumes. |

11. Toxicological Information

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|----------------------|---|
| 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 |
| Ingest | Low order of acute toxicity. |
| LD50 Ingest | 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. |
| Carcinogenicity | Not considered to be a carcinogen. |
| Mutagenicity | Not considered to be a mutagen. |
| Reproductive Effects | No information is available. |

12. Ecological

None unusual.

13. Disposal Considerations

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| Disposal Methods | Small amounts may be carefully decomposed in a large excess of water. |
| Contaminated Packaging | Use a licensed waste disposer. |

14. Transport Information

| | |
|----------------------|----------------------------|
| Proper Shipping Name | Aluminium Powder, Uncoated |
| UN Number | 1396 |
| UN Classification | 4.3 Dangerous when wet |
| Subsidiary Risk | None |
| Flash Point | Not available |
| Packing Group | II |
| Transport Category | 2 |
| Marine pollutant | No |
| ADR Hazard ID | 423 |



15. Regulatory Information

| | |
|----------------|-------------------|
| Labelling | Highly Flammable. |
| Classification | |

Label Symbols

F



| | |
|-----------------------|--|
| Risk & safety Phrases | Flammable. Contact with water liberates highly flammable gases. Keep out of reach of children. Keep container tightly closed and dry. In case of fire use dry powder extinguisher - Never use water. |
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EEC Number 231-072-3

16. Other Information

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| Document Information | This document has been prepared in accordance with directive 88/379/EEC. |
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16. Other Information (continued)

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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