

1. Identification

Product Code **CA3540-54**

Product Name **ALUMINIUM METAL POWDER
(coarse)**

CAS Number 7429-90-5

Supplier:  **BEECROFT & PARTNERS**
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Rotherham
South Yorkshire

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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	OES

3. Hazards Identification

Contact with water liberates highly flammable gases. Spontaneously flammable in air.

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

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

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 Occupational Exposure Limits

Component	CAS No	Occupational Exposure Standard				Maximum Exposure Limits			
		Long Term		Short Term		Long Term		Short Term	
		ppm	mg m-3	ppm	mg m-3	ppm	mg m-3	ppm	mg m-3
Aluminium metal powder, resp	7429-90-5	-	5	-	-	-	-	-	-

8.2 Personal Protection

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	Silver-grey coarse metallic powder.
Odour	No specific odour.
pH	Not available
Boiling point	2500.0 °C a
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
Water Solubility	Reacts violently with water evolving a flammable gas which may explode or catch fire.

10. Stability & Reactivity

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

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

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
Marine pollutant	No
ADR Hazard ID	423



15. Regulatory Information

Labelling	Highly Flammable.
Classification	

Label Symbols

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Risk & safety Phrases	Contact with water liberates highly flammable gases. Spontaneously flammable in air. 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
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16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC.
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The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

16. Other Information (continued)

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