WF Education Group - Safety Data Sheet

AL1116

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

Revision: 1.2 Revision date: 16 April 2021

Date printed: 07 June 2021

Section 1. Identification

1.1 Product Identifier AL1116

Product Name ALUMINIUM METAL POWDER (fine) 250g.

CAS Number 7429-90-5

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula A1 = 26.981

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 WF Education Group



Phoenix House

Battlefield Enterprise Park

Stafford Drive Shrewsbury Shropshire SY1 3FE

UNITED KINGDOM

Phone +44(0)1743 812200
Email sales@wf-education.com
Website www.timstar.co.uk

1.4 Emergency Telephone (08:30-17:00) +44(0)1743 812200

(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

Pyrophoric solid, category 1 Contact with water > flam gas, category 2 H250: Catches fire spontaneously if exposed to air. H261: In contact with water releases flammable gas.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements In contact with water releases flammable gas. Catches fire spontaneously if exposed to air.

Precautionary Statements

Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Evacuate area.

Section 3. Composition

3.1 Substances

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|-------------------------|-----------|-----------|-----------|----------|-----------------------------------|
| Aluminium metal powder, | 7429-90-5 | 231-072-3 | | >99.5% | Pyr. Sol. 1,Water-react. 2 |
| resp | | | | | |

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 Wear protective gloves / eye protection.

aiders

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 (8 | hr 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

Hand Protection Wear gloves.

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 Silver-grey coarse metallic powder.

Odour
pH
Not applicable
Boiling Point
2450 °C
Melting Point
Flash Point
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
Not applicable
Not applicable
Not applicable
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 No data available.

reactions

10.4 Conditions to Avoid Avoid contact with water or water vapour.

10.5 Incompatable 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 Decomposes to emit highly irritant fumes.

Products

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.

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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.

Section 14. Transport Information

14.1 UN Number 1396

14.2 Proper Shipping Name Aluminium powder, uncoated

14.3 Transport classes

UN classification 4.3 Subsidiary hazard(s) None Transport category 2 ADR Hazard ID 423 **Tunnel Restriction Code** D/E 14.4 Packing Group Π



14.5 Environment hazards

See section 12.

14.6 Special precautions for

14.7 Transport in bulk Not transported in bulk.

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)

No special precautions required.

Classification Pyrophoric solid, category 1; Contact with water > flam gas, category 2

Signal word Danger

Hazard Pictograms



Hazard Statements H261, H250

In contact with water releases flammable gas. Catches fire spontaneously if exposed to air.

Precautionary Statements P223, P231+P232, P280, P335+P334, P370+P380

> Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Evacuate area.

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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