



Material Safety Data Sheet (MSDS)

Aluminium Metal (Powder)

Section 1: Chemical Product

Product Name: Aluminium Metal Powder (Stabilised)
CAS Number: 7429-90-5
Synonym:
Chemical Name: Aluminium
Chemical Formula: Al

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS Number:	% by Weight
Aluminium	7429-90-5	100

Toxicological Data on Ingredients: Not Available

Section 3: Hazards Identification

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

Section 4: First Aid Measures

Eyes: Wash 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.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Releases flammable gas in contact with water, acids or other aqueous solutions.

Explosion Hazards in Presence of Various Substances: Not available.

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Dry Powder

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Spill: Use approved personal protective equipment. Avoid breathing dust–wear respiratory protective equipment. Ensure no sources of ignition. Avoid raising dust clouds– explosion risk. Prevent entry into sewers, basements or confined areas. Call for assistance on disposal.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from water, acids or other aqueous solutions.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Synthetic apron. Vapour and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapour and dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available

Section 9: Physical and Chemical Properties

Physical state and appearance: Fine silvery-grey metallic powder.

Odour: Not available.

Taste: Not available.

Molecular Weight: Not available.

Colour: Silver.

pH (1% soln/water): Not available.

Boiling Point: 2500.0 °C

Melting Point: 660.0 °C

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapour Pressure: Not applicable.

Vapour Density: Not available.

Volatility: Not available.

Odour Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Releases flammable gas in contact with water, acids or other aqueous solutions.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Effects on Humans: The dust is irritating to the eyes. Particles deposited in the eye may cause necrosis of the cornea.

Special Remarks on Chronic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with local environmental control regulations.

Section 14: Transport Information

DOT Classification: Dangerous when wet

Identification: Aluminum Powder (Uncoated). UN1396. PG: II

Special Provisions for Transport: Not available.

Section 15: Regulatory Information

Chemical Safety Assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 1st February 2014

Last Updated: 1st March 2014

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the author be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the author has been advised of the possibility of such damages.