

United Nuclear

Scientific Equipment & Supplies

Material Safety Data Sheet / Safety Data sheet

Magnalium Powder

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Section 1: Chemical Product Identifier and Synonyms

Product Name: Magnalium Powder

UN Number: 1418

CAS Number: Aluminium: 7429-90-5 , Magnesium: 7439-95-4

Chemical Formula: Al and Mg

Section 2: Composition and Information on Ingredients

Composition

Name	CAS Number:	% By Weight
Aluminium	7429-90-5	50%
Magnesium	7439-95-4	50%

Toxicology Data On Ingredients: Magnalium Powder LD50: Not Available. LC50: Not Available

Section 3: Hazards Identification

Potential Acute Health Effects: Not available.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Section 4: First Aid Measures

Eye Contact:

Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Skin Contact:

Wash affected area with mild soap and water. Remove any contaminated clothing.

Inhalation:

Remove victim to fresh air. If unconscious, place patient stably in side position for transportation.

Ingestion:

Seek medical attention.

Section 5: Fire and Explosion Data

Flammability of the Product: Spontaneously 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: Not available.

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: Do not use water for metal fires – use CO₂, sand, extinguishing powder.

Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Wear appropriate respiratory and protective equipment specified in special protection information. Ventilate contaminated area. Take care not to raise dust.

Large Spill:

Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.

Section 7: Handling and Storage

Precautions:

Wash thoroughly after handling. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.

Storage:

Store in a cool dry place in a tightly sealed container.

Section 8: Exposure Controls / Personal Protection**Engineering Controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal Protection:

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Fine Powder.

Odour: Not available.

Taste: Not available.

Molecular Weight: Not available.

Colour: Grey.

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

Boiling Point: Not available.

Melting Point: 437-660.4 °C

Critical Temperature: Not available.

Specific Gravity: Not available. (Water = 1)

Vapour Pressure: Not available.

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: Product is stable under normal conditions.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Air, Water/Moisture, Nitrogen

Special Remarks on Reactivity: Oxidizing agents, Air, Acids, Bases, Halocarbons, water.

Special Remarks on Corrosivity: Not available.

Polymerization: Not available.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: (LD50): Not available. LC50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Not available.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Not available.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Information

Waste Disposal: Dispose of in accordance with local regulations

Section 14: Transport Information

DOT Classification: Class: 4.3 Substances which in contact with water release flammable gas.

Identification: Magnalium Powder. UN Number:1418 PG: II

Special Provisions for Transport: Not available.

Section 15: Regulatory Information

Regulations: Labelling according to Regulation (EC) No 1272/2008.

Section 16: Other Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. The author will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.

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