# Material Safety Data Sheet / Safety Data sheet
# Magnesium Powder

## Section 1: Chemical Product Identifier and Synonyms

Product Name: Magnesium Powder

UN Number: 1418

CAS Number: 7439-95-4

Chemical Formula: Mg

## Section 2: Composition and Information on Ingredients

Composition

| Name | CAS Number: | % By Weight |
|---|---|---|
| Magnesium Powder | 7439-95-4 | 99% |

**Toxicology Data On Ingredients:** Magnesium Powder LD50: Not Available. LC50: Not Available

## Section 3: Hazards Identification

**Potential Acute Health Effects:**

May be harmful if inhaled. May cause respiratory tract irritation.
May be harmful if absorbed through skin.
May cause skin irritation.
May cause eye irritation.
May be harmful if swallowed.

**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 as a precaution.

**Skin Contact:**

Wash off with soap and plenty of water. Consult a physician.

**Inhalation:**
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
**Ingestion:**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5: Fire and Explosion Data

**Flammability of the Product:**
**Auto-Ignition Temperature:** 510 °C (950 °F) -
**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:** Carbon dioxide (CO2) Dry powder.

Wear self contained breathing apparatus for fire fighting if necessary.

**Special Remarks on Fire Hazards:** Not available.
**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

**Small Spill:**
Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
**Large Spill:**
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations. Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations.

## Section 7: Handling and Storage

**Precautions:**
Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.
**Storage:**
Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage.
Keep in a dry place.

## 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:** 24.31 g/mole

**Colour:** Not available.
**pH (1% soln/water):** Not available.
**Boiling Point:** 1,090 °C (1,994 °F) - lit.
**Melting Point:** 648 °C (1,198 °F) - lit.
**Critical Temperature:** Not available.
**Specific Gravity:** Not available. (Water = 1)
**Vapour Pressure:** 1 hPa (1 mmHg) at 621 °C (1,150 °F)
**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:** Reacts violently with water. Avoid exposure to moisture.
**Incompatibility with various substances:** Not available.
**Special Remarks on Reactivity:** Strong oxidizing agents, acids, Acid chlorides, Halogens.
**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

**Identification:** Magnesium 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.

Date of Publication: 19th May 2017