

MATERIAL SAFETY DATA SHEET

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* MAGNESIUM METAL POWDER

1. Scientific Designation: Magnesium
2. Chemical Formula : Mg
3. CAS No. : 7439-95-4
4. HS No. : 8104.30-2000
- a) UN # : 1418 Class II

5. HAZARDS IDENTIFICATION

Acute Health Effects:

Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects:

This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Carcinogenicity:

This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

6. FIRST AID MEASURES

First Aid For Eye:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
First Aid For Skin:	In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.
First Aid For Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
First Aid For Ingestion:	If swallowed, call a physician immediately.

7. FIRE AND EXPLOSION DATA

Flammability:	Non-Flammable Auto-Ignition:Not Applicable
Flash Point:	Not Applicable Flammable Limits:Not Applicable
Extinguishing Media:	Use approved class d extinguishers or smother with dry sand, dry ground limestone or dry clay. Do not use water. Do not use carbon dioxide extinguisher on this material.
Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Pyrophoric material.
Fire/explosion Hazards:	Catches fire if exposed to air. Reacts with water to liberate flammable and/or explosive gas. Emits toxic fumes under fire conditions.

8. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:	Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.
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9. HANDLING AND STORAGE

Storage Temperatures:	Ambient
Shelf Life:	Unlimited in tightly closed container.
Special Sensitivity:	None

Handling/Storage

Precautions:	Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see No. 12). Reseal
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containers immediately after use. Store away from food and beverages.

10. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection:	Safety glasses or goggles.
Skin Protection:	PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.
Respirator:	Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
Ventilation:	Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
Additional Protective Measures:	Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

11. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Granular, Spherical or fine Powder
Color:	Silver to Gray
Odor:	Odorless
Molecular Weight:	24.305
Boiling Point:	1100 o C
Melting/freezing Point:	651 o C
Solubility In Water:	Insoluble
Specific Gravity:	1.738

12. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage.
Hazardous	
Polymerization:	Will Not occur
Incompatibilities:	Acids, Acid Chlorides, Strong Oxidizing Agents, Reacts Violently With: Halogens, Chlorinated Solvents, Air Sensitive, Moisture sensitive.
Instable Conditions:	Excessive temperatures.
Decomposition	

Temperature: Not Established
Decomposition Products: Not Established

13. TOXICOLOGICAL INFORMATION

RTECS Number: OM2100000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: Orl-Dog LdLo: 230 mg/kg

Chronic Toxic

Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

14. DISPOSAL CONSIDERATIONS

Waste Disposal

Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.