

MATERIAL SAFETY DATA SHEET

Magnesium Powder



SECTION 1: Identification of the substance/mixture and of the company

1.1 Product identifiers

Chemical name	Magnesium powder
Product name	High-purity magnesium powder
CAS number	7439-95-4

1.2 Details of the supplier of the material safety data sheet

Company	SHAANXI DAYU CHEMICAL CO., LTD.
Address	Dianzisan Road, Yanta District, Xi'an 710065, Shaanxi Province, China
Telephone	+86-29-88272352
Email	info@dayuchemical.com
Website	www.hidayuchemical.com

SECTION 2: Composition/information on ingredients

Chemical formula	Mg
Main content	$\geq 99\%$
Molecular weight	24.30
Appearance	Grey metallic powder

SECTION 3: Hazards identification

Accute 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.

Acute Health Effects:

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

SECTION 4: 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.

SECTION 5: Firefighting measures

Flammability: Non-Flammable

Flash Points: Not Applicable

Auto-Ignition: 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 Procedure: 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.

SECTION 6: 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

SECTION 7: Handling and storage

Storage Temperatures: Store at ambient temperature

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 Section X). Reseal containers immediately after use. Store away from food and beverages.

SECTION 8: 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.

SECTION 9: Physical and chemical properties

Physical Form: Granular, Spherical or fine Powder

Color: Silver to Gray

Odor: Odorless

Molecular Weight: 24.305

Boiling Point: 1100°C

Melting/Freezing Point: 651°C

Solubility In Water: Insoluble

Specific Gravity: 1.738

SECTION 10: Stability and reactivity

Stability: Stable

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 (see Incompatibilities).

Decomposition Temperature: Not Established

Decomposition products: Not Established

SECTION 11: 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.

SECTION 12: Ecological information

Ecotoxicity: Not available at this time.

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

Proper Shipping Name: Magnesium Powder

UN Number: 1418

Class: 4.3

P.G.: II

Label Code: 4.3(4.2)

SECTION 15: Regulatory information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SHAANXI DAYU CHEMICAL CO., LTD. shall not be held liable for any damage resulting from handling or from contact with the above product. Please see additional terms and conditions for reference.