



MATERIAL SAFETY DATA SHEET  
COMPLIES WITH 29 CFR 1910.1200.  
OSHA HAZARD COMMUNICATION RULE

---

## CHEMICAL IDENTITY

---

LABEL IDENTITY	<b>MAGNESIUM</b>
CHEMICAL NAME/SYNONYMS	<b>MAGNESIUM</b>
FORMULA	<b>Mg</b>
HAZARDOUS INGREDIENTS	<b>Magnesium Oxide fume as Mg</b>
	<b>TLV: 10mg/m3</b>

---

## PHYSICAL AND CHEMICAL PROPERTIES

---

COLOR, FORM AND ODOR	<b>Silver White Metal</b>
BOILING POINT, 760 MM HG	<b>3510°</b>
DENSITY (gm/cc)	<b>1.74</b>
VAPOR PRESSURE	<b>NA</b>
% VOLATILE BY VOLUME (%)	<b>NA</b>
REACTION WITH WATER	<b>None</b>
EVAPORATION RATE (H2O=1)	<b>NA</b>
SOLUBILITY IN WATER & BY WEIGHT	<b>Insoluble</b>
MELTING POINT	<b>ND</b>

---

## FIRE AND EXPLOSION HAZARD DATA

---

FLASH POINT	<b>NA</b>
AUTOIGNITION TEMPERATURE (°C)	<b>NA</b>
FLAMMABILITY	<b>Powders form explosive mixtures.</b>
EXTINGUISHING MEDIA	<b>Dry chemical, melting flux</b>
SPECIAL FIRE FIGHTING PROCEDURES	<b>Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Do not use water. Avoid direct viewing of Magnesium fires as eye injury may result.</b>
UNUSUAL FIRE & EXPLOSION HAZARDS	<b>Fine powder, foil and turnings are easily ignited and burn with intense heat. Pieces less than 3mm thick are difficult to ignite, but possible when sufficient heat is applied.</b>



## MAGNESIUM MATERIAL SAFETY DATA SHEET

---

### HEALTH HAZARD INFORMATION

---

ROUTES OF ENTRY	INHALATION:	<b>Yes</b>
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:		<b>None</b>
EFFECTS OF OVEREXPOSURE (acute and chronic):		
INHALATION: <b>dust will irritate mucous membranes. Excessive concentrations of oxide fume may cause metal fume fever.</b>		
DERMAL/EYE CONTACT: <b>dust will irritate eyes. Small particles imbedded in skin may cause ulceration which may become infected.</b>		

---

CARCINOGENICITY:	NTP:	IARC MONOGRAPHS:	OSHA REGULATE:
------------------	------	------------------	----------------

---

EMERGENCY FIRST AID PROCEDURES: ***In dust form:***  
 INGESTION: **Induce vomiting. Seek medical attention.**  
 INHALATION: **Remove victim to fresh air, administer oxygen, seek medical attention.**  
 SKIN CONTACT: **Brush material off skin, wash affected area with soap and water.**  
 EYE CONTACT: **Flush with water for 15 minutes, seek medical attention.**

---

### REACTIVITY DATA

---

STABILITY	<b>Stable</b>
CONDITIONS CONTRIBUTING TO UNSTABILITY	<b>NA</b>
INCOMPATIBILITY (MATERIALS TO AVOID)	<b>Water, strong acids, moisture, heat and flames</b>
HAZARDOUS DECOMPOSITION PRODUCTS	<b>Reacts with acids to form gas</b>
HAZARDOUS POLYMERIZATION	<b>Will Not Occur</b>
CONDITIONS TO AVOID	<b>NA</b>



## MAGNESIUM MATERIAL SAFETY DATA SHEET

---

### SAFE HANDLING AND USE

---

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: **Wearing full protective clothing, isolate the area and insure proper ventilation. Vacuum up spill and place in a container for proper disposal. No Smoking in clean up area.**

WASTE DISPOSAL METHOD: **According to local, state and federal regulations.**

---

### SPECIAL PROTECTIVE INFORMATION

---

RESPIRATORY PROTECTION	<b>OSHA approved respiratory</b>
VENTILATION	<b>Local exhaust: Fume hood for dust or fumes</b>
	<b>Mechanical exhaust: NA</b>
PROTECTIVE GLOVES	<b>Recommended</b>
EYE PROTECTION	<b>Safety glasses with side shields</b>
OTHER PROTECTIVE EQUIPMENT	<b>Maintain sink, safety shower and eyewash fountain in the work area. Wear full protective clothing at all times.</b>

---

### SPECIAL PRECAUTIONS

---

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE: **Store in tightly closed containers in a cool, dry place. Wash hands and face thoroughly.**

#### TRANSPORTATION REQUIREMENTS

DOT CLASS:	<b>Flammable Solid</b>
UN NUMBER:	<b>ND</b>
IMCO CLASS:	<b>ND</b>
OTHER:	<b>ND</b>

OTHER PRECAUTIONARY LABELING **NO DATA**

---

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

**NA= NOT APPLICABLE**

**ND= NO DATA FOUND**

**NR=NOT RECORDED**