

MATERIAL SAFETY DATA SHEET



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SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: MIRAMAG **Additional Names:** Magnesium Plate
Product Code:

General Use: To make magnesium photoengraving dies.

Company: UEI® Systems, A UEI Group Company
Address/Phone: 9090 Nieman Road
Overland Park, KS 66214
(800) 221-9059 or (913) 541-0503

Emergency Contact Number: CHEMTREC – Available 24 hrs/day, 7 days/week
Domestic North America: 800-424-9300
International: 703-527-3887

SECTION II HAZARDOUS INGREDIENTS / IDENTIFIY INFORMATION

<u>Hazardous Components</u>	<u>Cas No.</u>	<u>%</u>	<u>OSHA (PEL/TWA)</u>	<u>ACGIH TLV</u>	<u>MSHA (PET/TWA)</u>
Aluminum	007429-90-5	3.0	10 mg/M3	10 mg/M3	
Zinc	007440-66-6	1.0	5 mg/M3	10 mg/M3	
Magnesium	007439-95-4	96.0	15 mg/M3	10 mg/M3	

SECTION III HAZARDS IDENTIFICATION

Sheet of silver-colored metal.

Inhalation: Dust may cause irritation to upper respiratory tract.
Ingestion: Ingestion is unlikely due to physical state. If large amounts were ingested serious injury or death could occur because the acute oral toxicity of magnesium is considered moderate.
Skin Contact: Mechanical injury only. Molten material may burn skin.
Skin Absorption: Skin absorption is unlikely due to physical properties.
Eye: Mechanical injury only.
Systemic/Other: Based on available date, repeated exposures are not anticipated to cause any significant adverse effects.

SECTION IV FIRST AID MEASURES

In all cases call a physician immediately.

Inhalation: Remove to fresh air if dust inhalation effects occur. NOTE TO PHYSICIAN – No specific antidote for dust inhalation. Supportive care. Treatment based on judgement of the physician in response to reaction of the patient.
Ingestion: Induce vomiting if large amounts of dust are ingested.
Eye Contact: Irrigate immediately with water for at least 5 minutes.
Skin Contact: Wash off dust in flowing water or shower.

SECTION V FIRE FIGHTING MEASURES

Flash Point: None **Flammable Limits:** N/A **Auto-ignition temperature:** N/A
Extinguishing Media: Smother burning magnesium by covering with an extinguishing powder approved for use on magnesium fires.
Special Fire Fighting Procedures: Fire Fighting Equipment – Wear positive pressure self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: When heated in air to a temperature near its melting point magnesium alloys ignite and burn with a white flame. Using water on molten magnesium alloys will produce hydrogen gas and may cause an explosion.

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SECTION VI ACCIDENTAL RELEASE MEASURES

Sweep up but avoid creating airborne dust.

SECTION VII HANDLING AND STORAGE

No special handling precautions. Store in a dry, ventilated area. Dispose of in accordance with local, state, and federal regulations.

SECTION VIII EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: No respiratory protection should be needed.
Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Skin Protection: No precautions other than clean body-covering clothing should be needed.
Eye Protection: Use safety glasses. If there is a potential for exposure to particles then use chemical goggles.
Exposure Guideline: ACGIH TLV is 10 mg/M³ oxide fume. OSHA PEL is 15 mg/M³ oxide fume.

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not determined.	Melting Point:	Approx. 1160° F, 627°C
Freezing Point:	N/A	Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A	Solubility in Water:	N/A
pH:	N/A	Specific Gravity (Water=1):	Approx. 1.76
Viscosity:	N/A	Evaporation Rate (Water =1):	N/A
Appearance and odor:	Silver solid. No odor.		

SECTION X STABILITY AND REACTIVITY

Stability: Stable under normal handling conditions.
Incompatibility: Acid, water. Reacts with acid to form hydrogen gas. In finely divided form will react with water or acids to release hydrogen.
Hazardous Decomposition/By-Products: None under normal use/storage.
Hazardous Polymerization: Will not occur.

SECTION XI DISPOSAL CONSIDERATIONS

Recycle if possible. Dispose of waste in accordance with federal, state, and local regulations.

SECTION XII OTHER INFORMATION

UEI[®] Systems provides the information contained herein in good faith. The information is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI[®] Systems shall not be held liable for any damage resulting from handling or from contact with the product listed herein.

Abbreviations

PEL: Permissible Exposure Limit TLV: Threshold Limit Value N/A: Not Applicable