

9090 Nieman • Overland Park, KS 66214 • (913) 541-0503 • Toll Free: 800-221-9059 • sales@ueisystems.com • ueisystems.com

Section 1 Chemical Product and Company Identification

Product Identifier MiraMag®, Uncoated

Product Number IR-MAG6186

General Use To make magnesium photoengraving dies

Company UEI Systems®, a UEI Group Company

Address 9090 Nieman Road

Overland Park, KS 66214 USA

Phone +1 800 221 9059 or +1 913 541 0503

Emergency Contact Number CHEMTEL – Available 24 hours/day, 7 days/week

Domestic North America: +1 800 255 3924

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Section 2 Hazards Identification

GHS Classification

Hazard Class	Hazard Category	Route of Exposure
Flammable Solids	1	-
Self-Heating Substances and Mixtures	1	-
Substances and Mixtures, which, in contact with water emit flammable gases	2	-

GHS Labeling

Contains

Aluminum (7429-90-5) Zinc (7440-66-6) Magnesium (7439-95-4)



Danger

Hazard Statement Flammable solid

Self-heating; may catch fire

In contact with water, release flammable gases

Precautionary Statements Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep away from any possible contact with water because of violent reaction

and possible flash fire.

Handle under inert gas. Protect from moisture.

Keep cool. Protect from sunlight.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Wear protective gloves/eye protection/face protection.

Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage Store in a dry place. Store in a closed container.

Maintain air gap between stacks/pallets.

Store bulk masses greater than 1,000 kg/2,200 lbs at temperatures not exceeding 1,202°F (650° C).

Store away from other materials.

Disposal Dispose of contents/container to an approved waste disposal plant.



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Section 3	Hazardous Ingredients	/ Identity Inform	nation	
	Hazardous Components	CAS No.	%	
	Aluminum	7429-90-5	3.0	
	Zinc	7440-66-6	1.0	
	Magnesium	7439-95-4	96.0	
Section 4	First Aid Measures			
	In all cases, consult a physicia	an.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.			
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out mouth with water.			
Eye Contact	Immediately flush eyes with large amounts of water for at least 15 minutes.			
Skin Contact	Immediately flush skin with large amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Wash hands before eating and smoking.			
Section 5	Firefighting Measures			
Extinguishing Media	Use dry powder			
Special Hazards from Substance	Magnesium oxide			
Firefighting Equipment/Instructions	Firefighters should wear NIOSH-approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.			
Section 6	Accidental Release Mea	sures		
Personal Precautions	Avoid dust formation. Avoid b Remove all sources of ignition		t or gas. Ensure adequate ventilation. I to safe areas.	
Environmental Precautions	Prevent further leakage or spi	llage if safe to do so.	Do not let product enter drains.	
Methods for Cleaning Up	vacuum cleaner or by wet-bru	ishing and place in co	ollect with an electrically-protected ontainer for disposal according to local er. Keep in suitable, closed containers for	
Section 7	Handling and Storage			
Precautions for Safe Handling	potential for combustible dus tional processing occurs. Avoi	t formation should b d formation of dust a st is formed. Keep av	the formation of combustible dusts. The e taken into consideration before addi- and aerosols. Provide appropriate exhaust way from sources of ignition. No smoking atic charge.	
Conditions for Safe Storage	in contact with water during s	torage. Store under i	tilated place. Never allow product to get nert gas. Material is air and moisture sen- f-heating hazardous materials.	



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Section 8	Component Exposure Limits
Control Parameters	Contains no substances with occupational exposure limit values.
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Eye/Face Protection	Wear face shield and safety glasses. Use equipment for eye protection tested an approved under appropriate government standards, such as NIOSH (US) or EN 166 (EU).
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (not touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection	Wear flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Personal Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of Environmental Exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9	Physical and Chemica	al Properties		
Appearance/Odor	Solid/no data available	Odor Threshold	No data available	
рН	No data available	Boiling Point	1,994° F (1,090° C)	
Melting Point	1,198° F (648° C)	Solubility (H ₂ O)	No data available	
Relative Density	1.73 g/cm³ at 73° F (23° C)	Octanol/H ₂ O Coefficient	No data available	
Evaporation Rate	No data available	Molecular Weight	No data	
Decomposition Temperature	No data available	Auto Ignition	Self-heating; Category 1	
Lower Flammability Limit	No data available	Flash Point	No data available	
Upper Flammability Limit	No data available	Vapor Density	No data available	
Vapor Pressure	1 mmHg (1 hPa) at 1,150° F	(621° C) Flammability	May form combustible dust concentrations in air	
Viscosity	No data available	Explosive Properties	No data available	
Oxidizing Properties	No data available			
Section 10	Chemical Stability an	d Reactivity		

Decomposition lemperature	No data available	Auto Ignition	Self-heating; Category 1	
Lower Flammability Limit	No data available	Flash Point	No data available	
Upper Flammability Limit	No data available	Vapor Density	No data available	
Vapor Pressure	1 mmHg (1 hPa) at 1,150° F (621° C)	May form combustible dust concentrations in air		
Viscosity	No data available Expl	osive Properties	No data available	
Oxidizing Properties	No data available			
ection 10	Chemical Stability and React	ivity		
Reactivity	No data available			
Stability	Stable under recommended handling conditions			
Hazardous Reactions	Reacts violently with water			
Conditions to Avoid	Heat, flames and sparks; exposure to moisture.			
Incompatible Materials	Acids, strong oxidizing agents, acid chlorides, halogens			
Hazardous Decomposition/ By-Products	Other decomposition products no da In the event of fire, see Section 5	ta available.		



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Section 11	Toxicological Information
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
	NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
	OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive Toxicity	No data available
Specific Target Organ Toxicity Single Exposure	No data available
Specific Target Organ Toxicity	
Repeated Exposure	No data available
Aspiration Hazard	No data available
Additional Information	RTECS: Not available Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, chills, fever, fatigue, muscle pain, joint pain, rash, anorexia. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
Section 12	Ecological Information
Ecotoxicity	No data available
Persistence/Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Results of PBT and vPvB Assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other Adverse Effects	No data available
Section 13	Disposal Considerations

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Disposal Instructions Recycle if possible. Dispose in accordance with Federal, State, Provincial, and local regulations.



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Section 14	Transportation Inf	ormation			
	Proper Shipping Name	e Class	UN Nur	mber	Packaging Group
LAND TRANSPORT US DOT and Canadian TDG Surface Transportation:	Not regulated	Not regulated	Not regu	ulated	Not regulated
SEA TRANSPORT IMDG:	Not regulated	Not regulated	Not regu	ulated	Not regulated
AIR TRANSPORT ICAO/IATA:	Not regulated	Not regulated	Not regulated		Not regulated
Section 15	Regulatory Inform	ation			
SARA 302 Components SARA 313 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The following components are subject to reporting levels established by SARA Title III, Section 313:				
	Right To Know Components CAS-No Revision Date				Date
Massachusetts	Aluminum Zinc Magnesium (non-pyrop	ohoric)	7429-90-5 7440-66-6 7440-66-6	1994-04 1993-04 1993-04	I-24
Pennsylvania	Aluminum 7- Zinc 7-		7429-90-5 7440-66-6 7440-66-6	1994-04 1993-04 1993-04	l-24
New Jersey	Aluminum 74 Zinc 74		7429-90-5 1994- 7440-66-6 1993- 7440-66-6 1993-		l-24
California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.				



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Section 16 Other Information

UEI Systems® provides the information contained herein in good faith. It is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving this 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 this product. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources.

Abbreviations PEL Permissible Exposure Limit

TLV Threshold Limit Value

End Notes

1. SARA - Signed into law in 1986, the Superfund Amendments and Reauthorization Act (SARA) is an extension of CERCLA, and is intended to encourage and support local and state emergency planning efforts. SARA provides citizens and local governments with information about potential chemical hazards, and calls for facilities that store hazardous materials to provide officials and citizens with data on the type and amount on hand at specific locations. This field states whether a material is listed or not listed in section 372.65 of SARA. EHS - This states if a material is listed or not listed in Appendix B to part 355, the SARA Extremely Hazardous Substances (EHS) section. RQ is the reportable quantity. TPQ is the Threshold Planning Quantity.

2. RCRA - The Resource Conservation and Recovery Act enacted in 1976 and subsequently amended, controls solid-waste disposal and encourages recycling. This states whether a material is listed or not listed under this regulation. If listed the Hazardous Waste Number and waste characterization assigned by RCRA is also provided. 3. CERCLA - Enacted in 1980 and amended thereafter, the Comprehensive Environmental Response, Compensation, and Liability Act provides for identification and cleanup of hazardous materials released on land, into the air, waterways, and groundwater. It covers areas affected by newly released materials and older leaking or abandoned dump sites. This states whether a material is listed or not listed in CERCLA Table 302.4. If listed the section(s) that it is listed under and the Reportable Quantity (RQ) are also provided. 4. TSCA - The Toxic Substances Control Act controls the exposure to and use of raw industrial chemicals not subject to other laws. This states whether the chemical is listed or not listed under this regulation.

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