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# Section 1 Chemical Product and Company Identification

**Product Identifier** MiraMag® Etching Additive-RF

Product Number IR-CHE8534

**General Use** Printing operations

**Company** UEI Systems®, a UEI Group Company

Address 9090 Nieman Road

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# Section 2 Hazards Identification

**GHS Classification** 

Hazard Class	Hazard Category	Route of Exposure	
Carcinogenicity	1B	_	

**GHS Labeling** 



**Danger** 

**Hazard Statements** May cause cancer

**Precautionary Statements** Obtain special instructions before use

Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If exposed or concerned: Get medical advice/attention

Storage Store locked up

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

## Section 3 Hazardous Ingredients / Identity Information

Hazardous Components	CAS No.	%
Mineral Seal Oil	64742-38-7	1–5

**S**afety **D**ata **S**heet



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Section 4	First Aid Measures
Skin Exposure	If this product contaminates the skin, begin decontamination with running water. Minimum flushing is for 15 minutes if redness or irritation develops. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual must seek medical attention if any adverse effect occurs.
Eye Exposure	If vapors, mists, or sprays generated by this product enter the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual must seek immediate medical attention.
Inhalation	If vapors, mists or sprays generated by this product are inhaled, remove contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers.
Ingestion	Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed, <b>call physician or Poison Control center for most current information.</b> Never induce vomiting to someone who is unconscious.
	Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.
Section 5	Firefighting Measures
Flash Point	Not applicable
<b>Auto Ignition Temperature</b>	Not applicable
Flammable Limits (in air by volume, %)	Lower: Not applicable Upper: Not applicable
Fire Extinguishing Materials	Use fire extinguishing materials appropriate for surrounding fire.
Unusual Fire and Explosion Hazards	This product must be substantially preheated for ignition to occur. When involved in a fire, this material decomposes to generate irritating vapors and toxic gases (including carbon

**Explosion Sensitivity to Mechanical Impact** Not sensitive

**Explosion Sensitivity to** 

**Static Discharge** Not sensitive

**Special Firefighting Procedures** 

Incipient fire responders should wear eye protection. Structural firefighters must wear self-contained breathing apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. All fire response equipment which may become contaminated with this material should be

thoroughly decontaminated with water before being returned to service.

monoxide, carbon dioxide, and oxides of sulfur and nitrogen).

Safety Data Sheet



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Section 6	Accidental Release Measures
Personal Precautions	Wear gloves and approved respiratory protection if possibility of dust, mist and fume exposure exists.
<b>Environmental Precautions</b>	Ensure compliance with local, state and federal regulations in the use of any waste containment program. Do not let product enter drains.

Methods for Cleaning Up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,

closed containers for disposal.

# Section 7 Handling and Storage

Work and Hygiene Practices As with all chemicals, avoid getting this product on you or in you. Wash thoroughly after using this product. Do not eat, drink, smoke or apply cosmetics while handling this product. Avoid

breathing vapors, mists, or sprays of this product. Remove contaminated clothing immediately.

**Storage and Handling Practices** All employees who handle this material should be trained to handle it safely. Open contain-

ers slowly on a stable surface. Containers of this product must be properly labeled. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, or sources of intense heat. Store away from incompatible materials (see Section 10, Chemical Stability and Reactivity). Material should be stored in secondary containers. Keep container tightly closed when not in use. Storage areas should be made of fire resistant materials. If appropriate, post warning signs in storage and use areas. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged.

# Section 7 Handling and Storage, continued

Protective Practices During Maintenance of Contaminated Equipment

Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely, if necessary. Collect all rinsates and dispose of according to applicable Federal, State, or local procedures.

# Section 8 Component Exposure Limits

**Appropriate Engineering Controls** 

Chemical Name	% w/w	Exposure Limits in Air Based on 8-Hour Time-Weighted Averages Unless Otherwise Stated						
		ACGIH		OSHA				
		TLV PPM	STEL	PEL PPM	STEL	IDLH	Other	
Mineral Seal Oil CAS 64742-38-7	1–5	100	-	100	-	-	-	

Appropriate Engineering Controls

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in Section 3 (Hazardous Ingredients/Identity Information). Use a chemical fume hood or local exhaust ventilation, and process enclosure if necessary, to control airborne mists. Ensure eyewash/safety shower stations are available near areas where this product is used.

Personal Respiratory Protection

Use NIOSH/MSHA approved dust respirator to avoid excessive inhalation of dust, fume or mist.

**Protective Hand Protection** 

Use protective gloves

**Eye Protection** 

Use safety glasses

**Body Protection** 

Wear body protection appropriate for task (e.g., apron, lab coat, coveralls)

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Section 9	Physical and Cher	mical Properties					
Appearance and Odor	Clear, amber liquid	Odor Threshold	No data				
РН	9.8 <b>Boiling Point</b> Approximately 212° F (100°						
Melting Point	No data Solubility (H <sub>2</sub> O) Miscible						
Specific Gravity		1.066 <b>Density</b> No data					
Octanol/H <sub>2</sub> O Coefficient	No data	Evaporation Rate	No data				
Molecular Weight	No data	Decomposition Temperature	No data				
Auto Ignition	No data	Lower Flammability Limit	No data				
Flash Point	No data	Upper Flammability Limit	No data				
Vapor Density	No data	Vapor Pressure	Similar to water				
VOC	No data	Flammability Class	No data				
Viscosity	No data						
How to Detect this Substance	The appearance and o	dor may be warning properties of th	is product.				
Section 10	<b>Chemical Stability</b>	y and Reactivity					
Stability	Stable						
Conditions to Avoid	Fire, extremely high te	mperatures, and contact with incom	patible chemicals				
Incompatibility	Strong oxidizers, strong acids and strong caustics						
Hazardous Decomposition/	Salong Salanzers, salong delas and salong edusites						
By-Products	Thermal decomposition will produce carbon monoxide, carbon dioxide, and oxides of sulfur and nitrogen.						
<b>Hazardous Polymerization</b>	Will not occur						
Section 11	Toxicological Info	rmation					
Toxicity Data	The specific toxicology as follows:	data available for components grea	ter than 1% in concentration are				
Reproductive Toxicity Information		Listed below is information concerning the effects of this product and its components on the human reproductive system.					
Teratogenicity	This product is not rep	orted to produce embryotoxic effect	ts in humans.				
Reproductive Toxicity	This product is not rep	orted to produce embryotoxic effect	ts in humans.				
Section 12	<b>Ecological Inform</b>	ation					
Ecotoxicity	to aquatic life in the im fects similar to those d	tities of this detergent solution into a nmediate area. This mixture may be h escribed for human exposures (see S ently available on this solution's pote	narmful to animals, producing ef- section 2, Hazards Identification).				
Persistence/Degradability	No data available						
<b>Bioaccumulative Potential</b>	No data available						
Mobility in Soil	il No data available						
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#### Section 13

## **Disposal Considerations**

**Disposal Instructions** 

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

#### **Section 14**

# **Transportation Information**

This material is not regulated under DOT provisions.

#### Section 15

### **Regulatory Information**

	SARA <sup>1</sup>	SARA <sup>1</sup> EHS	RCRA <sup>2</sup>	CERCLA <sup>3</sup>	CERCLA <sup>3</sup> RQ	TSCA⁴
Mineral Seal Oil	Not listed	Not listed	Not listed	Not listed	None	Listed

#### Component Analysis - State

Component	CA	MA	MN	ИЛ	PA	RI
All components	N	N	N	N	N	N

California Prop 65

**Warning**: This product contains chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm

#### 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.

Revision

27 April 2020

Supersedes

15 June 2015