### MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### METALLOID CORPORATION

1160 White Street, Sturgis, MI 49091

Phone: 800/686-3201 Fax: 269/503-7795

Product name Microlube M-50

Chemical family Metalworking fluid

Formula Proprietary Blend

**Rev. date** May 30, 2008

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient CAS# %Range OSHA PEL ACGIH TLV

This product has been evaluated and does not require any hazard warning label under OSHA Hazardous Communication Standard.

#### 3. HAZARDS IDENTIFICATION

**Emergency overview** 

Not expected to cause a severe emergency hazard.

Caution: May cause eye irritation. Prolonged or repeated skin contact with this product may tend to remove skin oils possibly leading to irritation and/or dermatitis. Avoid contact with eyes, skin, and clothing. Wash thoroughly after

handling.

HMIS rating Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: A

### POTENTIAL HEALTH EFFECTS

Primary routes of exposure Eyes, Skin

#### Acute effects of overexposure

Eye contact: May cause temporary discomfort, redness, and irritation.

Skin contact: Repeated or prolonged contact may cause skin irritation or dermatitis

Inhalation: Not a normal hazard.

Ingestion: Not expected under normal industrial exposure.

Chronic effects of overexposure None currently known

Product / Ingredients listed as carcinogen or potential carcinogen

NTP Annual Report: No IARC Monographs: No OSHA: No

Medical conditions generally aggravated by exposure

May aggravate existing skin irritation/dermatitis

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### 4. FIRST AID MEASURES

**Emergency and first aid procedures** 

Eyes: Flush immediately with cool, clean water for at least 15 minutes.

If irritation persists, contact a physician.

Skin: Wash with mild soap and warm water

Inhalation: Remove to fresh air

Ingestion: If large quantities are ingested do not induce vomiting, contact a physician.

Note to physician Based on the individual reactions of the patient, the physician's judgement should

be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

Flash point (test method) >320° (COC) Flammable limits Not determined

**Extinguishing media** Carbon dioxide, dry chemical, foam, or water spray.

**Products of combustion** Products of combustion can include carbon oxides and smoke.

Special fire fighting

**Procedures** 

Use water spray to cool containers exposed to flames. Fire fighting personnel

should wear respiratory protection.

Unusual fire and explosion hazards

None known.

### **6. ACCIDENTAL RELEASE MEASURES**

Steps to be taken if material is released or spilled

Small spills: Absorb with an inert material and place in an appropriate waste disposal

container.

Large spills: Treat like an oil spill. Stop spill at the source. Dike area of spill to prevent

spreading. Pump liquid to salvage container. Recover product if possible. Remaining liquid can be taken up with absorbent material and placed into

appropriate containers.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storing

Keep away from flame, sparks, and hot liquid. Keep container closed when not in use. Avoid contact with eyes. Avoid prolonged or repeated skin contact with the concentrate. Wash thoroughly after handling. Do not swallow. Do not

transfer to unlabeled container.

Other precautions None known.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory protection Not normally needed. If significant mists, vapors, or aerosols are generated an

approved respirator is recommended.

**Ventilation** General room ventilation should be sufficient. If mists are present, provide

adequate ventilation to control level below PEL.

**Protective gloves** Oil resistant recommended.

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**Eye protection** Safety glasses or splash goggles when eye contact may occur.

Other protective equipment If there is a likelihood of splashing, an oil resistant apron should be worn to

prevent clothing contamination. If clothing is contaminated, remove clothing and thoroughly wash the effected area. Launder contaminated clothing before reuse.

Keep an eyewash fountain available. Keep a safety shower available.

**Exposure limits** None established by ACGIH or OSHA for product as a whole. Refer to Section 2.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear slight amber liquid

Odor Mild mineral oil odor

**Specific gravity (H₂0=1)** .80 @ 70° F

Solubility in water Negligible

Percent volatile by volume <2

Boiling point (at 760 mm Hg)  $> 212^{\circ}$  F

Evaporation rate (butyl acetate=1) Not determined

Vapor pressure (mm Hg) Not determined

Vapor density (Air=1) Not determined

### 10. STABILITY AND REACTIVITY

**Stability:** Product is stable under normal conditions. **Conditions to avoid:** None.

Incompatibility (materials to avoid)

Strong oxidizing agents.

Hazardous combustion or decomposition products

Products of combustion can include carbon oxides.

Hazardous polymerization Will not occur.

### 11. TOXICOLOGICAL INFORMATION

No specific toxicological data is available for this product.

### 12. ECOLOGICAL INFORMATION

No specific ecological data is available for this product.

#### 13. DISPOSAL CONSIDERATIONS

Waste disposal method Dispose of according to Local, State, and Federal regulations. Not a RCRA

hazardous waste if uncontaminated. If "used," RCRA criteria must be

determined. Do not flush to drain/storm sewer.

**Empty container precautions** Empty container retains product residue and can be hazardous. Do not

pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity, or other sources of ignition. Recondition or dispose of empty container in accordance with government regulations.

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### 14. TRANSPORT INFORMATION

**DOT hazard class** None

**DOT identification number** Not applicable

Proper shipping name Not applicable

### 15. REGULATORY INFORMATION

**TSCA** inventory

All ingredients are listed on the TSCA Inventory of Chemical Substances

**SARA 313 toxic chemicals** 

**Chemical Name** 

Cas#

% Range

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### **16. OTHER INFORMATION**

This product's material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

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