

## Special Kwik-Way Grinding Oil

Kwik-Way Part Number  
000-2112-73 One gallon  
000-2111-92 Five gallon

## Material Safety Data Sheet

**DATE EFFECTIVE:** 09-24-2004

Kwik-Way Products Inc.  
500 57<sup>th</sup> Street  
Marion, Iowa 52302  
1-800-553-5953

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** MILHONE® 45 Metal Working Oil      **Material ID:** 288  
**Manufacturer:** Milacron Marketing Company, Global Industrial Fluids  
3000 Disney Street  
Cincinnati, OH 45209 United States  
**Emergency:** Telephone (USA): 1-800-424-9300 (CHEMTREC)  
**Emergency:** Telephone (Outside USA): 1-703-527-3887 (CHEMTREC)  
**General Information:** Telephone: 1-513-458-8199  
**Generic Name:** Metalworking Oil

### 2. EMERGENCY INFORMATION

Product is combustible. Product is a primary eye irritant. Product may be a primary skin irritant. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.

### 3. POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

**Inhalation:** Product  
Extended exposure to mist may cause upper respiratory irritation.

**Eye Contact:** Product is a primary eye irritant.

**Skin Contact:** Product may be a primary skin irritant.

**Ingestion:** Not orally toxic. However, pulmonary aspiration *hazard* if swallowed and/or vomiting occurs - can enter lungs and cause damage.

#### Medical Conditions generally aggravated by exposure

May aggravate existing skin irritation where further defatting or skin penetration could occur.

Mild skin irritation (redness and dryness of hands) may be experienced when the product has been contaminated by certain oils or by dissolved metals. When problems occur, use of oil-resistant barrier creams may be a temporary control measure. Contact Milacron Marketing Company, Global Industrial Fluids Technical Services at 1-513-458-8199 for specific recommendations.

When used in applications generating high levels of mist, operator exposure can be minimized by proper ventilation, use of mist collectors or splash guards, as appropriate. If there is doubt about actual mist levels present, monitoring should be conducted. Contact Milacron Marketing Company, Global Industrial Fluids at 1-513-458-8199 for specific recommendations.

**Carcinogen Listings:** NTP: No      IARC: No      OSHA: No

## **Signs and symptoms of exposure**

### **Acute**

Eye injury may result from contact with product. Skin irritation can result from improper use and handling of product.

## **4. EMERGENCY AND FIRST AID PROCEDURES**

### **Eyes**

In case of eye contact, flush immediately with running water for at least 15 minutes, and get prompt medical attention.

### **Skin Contact**

For skin contact flush with large amounts of water while removing contaminated clothing. Remove contaminated shoes and clothing and launder before reuse.

Product is not irritating to the skin when used as recommended and good personal hygiene is practiced.

### **Ingestion**

If the material is swallowed, get immediate medical attention or advice. DO NOT INDUCE VOMITING.

### **Inhalation**

Inhalation can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/m<sup>3</sup> for any airborne particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m<sup>3</sup> for metalworking fluid mist. If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention.

## **5. CONTROL MEASURES**

### **Respiratory protection**

Product is not volatile.

In applications where time-weighted exposures are 0.5 to 5 mg/m<sup>3</sup>, mist reduction through improved ventilation, mist collection or process modification is recommended by NIOSH. Where this is not possible, NIOSH recommends the use of any air purifying, half-mask respirator including a disposable respirator, equipped with any P- or R-series particulate filter. If the average exposure will exceed 5 mg/m<sup>3</sup>, NIOSH recommends use of a powered, air-purifying respirator equipped with a hood or helmet and a HEPA filter. If respiratory problems are present when mist levels are < 0.5 mg/m<sup>3</sup>, respiratory protection should be based on the individual recommendation of a qualified health care provider.

### **Caution**

The appropriate use and type of respirator is dependent upon use of the product and local operating conditions.

### **Ventilation**

For most applications, normal shop ventilation is adequate. However, when high mist levels are generated or where machines are close together or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of splash guards or mist collectors is recommended.

**Eye protection**

Proper metalworking plant eye protection required when handling product.

**Other protective clothing or equipment**

Use effective metalworking plant protective clothing as appropriate.

**Work / Hygiene Practices**

Good personal hygiene should always be followed.

**Protective Gloves**

Impervious gloves, such as nitrile gloves, are recommended when handling product.

**6. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

These ingredients may contribute to the acute product hazards listed under the Potential Health Effects section. Other substances, not hazardous under the OSHA Hazard Communication Standard, may be present. Further composition information may be available to health professionals as provided in the Standard.

Component	CAS#	Percent
PETROLEUM DISTILLATES, HYDROTREATED, HEAVY NAPHTHEN	64742-52-5	40-70
HYDROTREATED PARAFFINIC BASE OIL	64742-58-1	10-30
TURPENTINE	8006-64-2	1-5

**7. FIRE AND EXPLOSION HAZARD DATA****Extinguishing Media**

Chemical foam, carbon dioxide, or dry chemical

**Unusual Fire & Explosion Hazards**

None

**Hazardous Combustion Products**

Smoke, fumes, hydrogen chloride, and oxides of carbon

**Flash Point:** 245 °F (118.3 °C) Cleveland Open Cup

**HMIS RATINGS**

Health	1
Flammability Classification	1
Reactivity	0

**NEPA RATINGS**

Health	1
Flammability Classification	1
Reactivity	0

## 8. ACCIDENTAL RELEASE MEASURES

Contain the spill, collect on absorbent material, and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.

**Reportable Quantity:** None

## 9. WASTE DISPOSAL

### For Used Product

Disposal procedures must comply with local, county, state and Federal regulations. Contact Milacron Marketing Company, Global Industrial Fluids at 1-513-458-8199 for assistance.

### For Unused Product

Product is not a hazardous waste as defined under 40 CFR 261. Contact Milacron Marketing Company, Global Industrial Fluids at 1-513-458-8199 for assistance.

### Empty Containers

Empty containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Drums can be drained to a "drip dry" condition by inversion and can be offered for recycling or scrap.

**CAUTION:** Empty containers retain residue (liquid and/or vapor) and may be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE THIS CONTAINER TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION: IT MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean drums since residue is difficult to remove. Empty drums should be completely drained, promptly bunged, and promptly returned to a drum reconditioner. Empty disposable bulk containers should be drained, sealed, and properly discarded. Empty recyclable bulk containers should be drained, sealed, and recycled. Empty pails and jugs should be drained and properly discarded.

## 10. HANDLING AND STORAGE

Do not store product in direct sunlight or elevated temperatures. Do not swallow. Avoid all contact of product with eyes or skin. If frozen, thaw completely at room temperature prior to use. Use only as recommended by Milacron Marketing Company, Global Industrial Fluids.

Eliminate all sources of ignition. Keep the container tightly closed.

### Other Precautions

Product is combustible. Do not heat. Avoid open flames, sparks, and temperatures approaching the flash point.

## 11. PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Boiling Point:</b>	Not Applicable
<b>Specific Gravity:</b>	0.892
<b>Solubility (H<sub>2</sub>O):</b>	Insoluble
<b>pH (Concentrate):</b>	Not Applicable
<b>Recommended Starting Dilution:</b>	Use Undiluted
<b>Appearance/Odor:</b>	Clear/Chemical

## 12. REACTIVITY

- Stability:** Stable under normal conditions.
- Conditions to avoid:** Use as directed.
- Materials to avoid:** Avoid contact with strong acids or oxidizers to product.
- Hazardous Polymerization** Will not occur.
- Combustion Products** Smoke, fumes, hydrogen chloride, and oxides of carbon

## 13. TRANSPORTATION INFORMATION

### BY LAND

**Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)**

Not a Hazardous Material

**U.S. Harmonized Tariff Code:** 2710.19.3070 BY

### AIR OR VESSEL

**Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)**

Not a Hazardous Material

## 14. REGULATORY INFORMATION

### EXPOSURE GUIDELINES

**REGULATED MATERIAL NIOSH REL OSHA PEL OSHASTEL ACGIH TLV ACGIH STEL**

METALWORKING FLUID MIST	0.5 mg/m <sup>3</sup>			
MINERAL OIL (MIST)	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>

### CERCLA

No components of this product are present at levels which require reporting under 40 CFR 302.4.

**EPCRA (SARA) TITLE III Extremely Hazardous Substances (302):** None

### Hazardous Substances (311/312)

Product is a hazardous substance as defined under the OSHA Hazard Communication Standard and may be reportable under the provisions of SARA Sections 311 and 312.

### HAZARD CATEGORIES

**Acute Health:** Yes

**Chronic Health:** No

**Fire:** Yes

**Sudden Release of Pressure:** No

**Reactive:** No

### RCRA

Product does not meet the definition of a hazardous waste as defined under 40 CFR 261. It is possible that in use, the product may be contaminated by metals or by chlorinated solvents and the final waste may meet the TCLP definition. Each facility should assess each waste stream to determine if the used fluid should be treated as a hazardous waste.

**TSCA** The ingredients of this product are on the TSCA inventory.

### State Right to Know

Many states have enacted Community Right-To-Know laws which require information beyond that mandated by federal laws. Since some of these laws are inconsistent with the federal laws, the information in this sheet may not fully meet the requirements of every state.

Toxic Substances (313) Component	CAS#	Max %	Comments
Polychlorinated Alkanes	None Assigned	1%	(Note: 10,000 lbs alkanes = 4065 drums of product)

### GLOSSARY OF ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
(ARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds

### Disclaimer

NOTE: The opinions expressed herein are those of qualified experts within Milacron Marketing Company, Global Industrial Fluids and of their suppliers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and of these opinions and the condition and use of the product are not within the control of Milacron Marketing Company, Global Industrial Fluids, it is the user's obligation to determine the conditions of safe use of the product.