

# MATERIAL SAFETY DATA SHEET

## STARLUBE 346

### METALWORKING OIL

Section 1. Chemical Product and Company Identification	
<b>Product Name: StarLube 346</b>	<b>Generic Name:</b> Metalworking Oil
<b>Manufacturer:</b> MILACRON MARKETING COMPANY LLC 3000 Disney Street Cincinnati, Ohio 45209	<b>Emergency Telephone Number:</b> 1-800-424-9300 (CHEMTREC)  <b>Information Telephone Number:</b> 513-458-8199  <b>Date Prepared:</b> 12/22/2010 <b>MSDS No.:</b> 921
<b>Material Uses:</b> Metalworking oil for cutting and grinding	

Section 2. Hazardous Ingredient/Identity Information		
HAZARDOUS INGREDIENTS	CAS #	RANGE, %
Severely hydrotreated naphthenic distillate	64742-52-5	80 - 100

Section 3. Hazard Identity			
Pulmonary aspiration hazard if swallowed or if vomiting occurs. Product is a primary eye irritant. Product may be a primary skin irritant. Product is combustible. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.			
<b>Inhalation</b>	Product is not volatile. Extended exposure to mist during metalworking operations may cause upper respiratory irritation.		
<b>Eye Contact</b>	Product is a primary eye irritant.		
<b>Skin Contact</b>	Product may be a primary skin irritant.		
<b>Ingestion</b>	Not orally toxic. However, product can enter lungs and cause damage if swallowed or if vomiting occurs.		
Exposure to mist during metalworking operations can be minimized by proper ventilation, and mist collectors.			
Mild skin irritation may be experienced if the product becomes contaminated with certain metals and oils. Contact MILACRON MARKETING COMPANY LLC at 513-458-8199 for assistance if skin irritation occurs.			
<b>Carcinogen Listings</b>	NTP: No	IARC: No	OSHA: No
<b>Signs and symptoms of exposure:</b> Eye injury may occur from contact with the product. Skin irritation may occur from improper handling or use.			

**Medical conditions generally aggravated by exposure:** Existing skin irritation may worsen.

#### Section 4. Emergency and First Aid Measures

**Eyes:** In case of eye contact with the product, flush immediately with running water for 15 minutes. Get prompt medical attention.

**Skin contact:** In case of skin contact with the product, wash with water as soon as possible. Product is not irritating to the skin when used as recommended.

**Ingestion: Do not induce vomiting** if product is swallowed. Do not give liquids, and immediately contact a physician.

**Inhalation:** Not expected to be a route of exposure. Inhalation of mist during metalworking operations can occur. OSHA has set a 15 mg/M<sup>3</sup> PEL as a nuisance level for airborne particulates. NIOSH has set a 0.5 mg/M<sup>3</sup> REL for metalworking fluid mist.

#### Section 5. Fire and Explosion Data

**Flash Point (COC), °F:** 400

##### Flammable Limits:

Lower Explosive Limit: NA

Upper Explosive Limit: NA

**Extinguishing Media:** Chemical foam, carbon dioxide

**Special Fire Fighting Procedure:** None

**Unusual Fire and Explosion Hazards:** None

**Hazardous Combustion Products:** Smoke, fumes, and oxides of carbon

**NFPA Ratings**

**Health**

**Flammability**

**Reactivity**

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#### Section 6. Accidental Release Measures

Contain the spill, and collect on absorbent material. Discard according to Federal, state and local regulations.

#### Section 7. Handling and Storage

Use only as recommended by MILACRON MARKETING COMPANY LLC. Avoid all contact of product with eyes or skin. Do not swallow. If frozen, thaw completely at room temperature and stir thoroughly prior to use.

**Other Precautions** – Product is combustible. Avoid open flames, sparks, and other ignition sources.

#### Section 8. Exposure Control/Personal Protection

**Respiratory Protection:** This metalworking fluid contains mineral oil. Under conditions which generate mists, observe all OSHA, ACGIH and NIOSH exposure guidelines. If an exposure guideline is exceeded, use a NIOSH-approved respirator as recommended by a qualified industrial hygienist.

**Personal Protection:** Safety glasses, work apparel, and impervious gloves. Wear goggles when handling product concentrate.

**Engineering Controls:** Normal shop ventilation is adequate for most applications. However, when high mist levels are generated, NIOSH recommends mist reduction through improved ventilation, process changes, and the use of mist collectors.

#### Section 9. Physical/Chemical Characteristics

<b>Boiling Point</b>	NA	<b>Evaporation Rate</b>	NA
<b>Specific Gravity</b>	0.90	<b>Solubility in Water</b>	Insoluble
<b>Vapor Pressure (mm Hg)</b>	ND	<b>Appearance/Odor</b>	Clear/petroleum
<b>Melting Point</b>	ND		
<b>Vapor Density</b>	ND		

<b>Section 10. Stability/Reactivity</b>	
<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	NA
<b>Materials to Avoid:</b>	Avoid contact with strong acids or oxidizers.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Combustion Products:</b>	Smoke, fumes, and oxides of carbon

<b>Section 11. Disposal Considerations</b>	
<b>For Used Product:</b>	Disposal procedures must comply with Federal, state, county, and local regulations.
<b>For Unused Product:</b>	Not a hazardous waste as defined by 40 CFR 261.
<b>CAUTION:</b> Empty containers retain liquid residues and vapors that can be dangerous. DO NOT PRESSURIZE, CUT, WELD, SOLDER, DRILL, OR GRIND CONTAINER. DO NOT EXPOSE CONTAINER TO HEAT, FLAME, SPARKS OR ANY OTHER SOURCE OF IGNITION. CONTAINER 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, sealed, and promptly sent 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.	

<b>Section 12. Transport Information</b>		
	<b>Hazardous Materials (49 CFR 172.101)</b>	<b>Hazard Class (49 CFR 172.101)</b>
<b>By Land</b>	Not a hazardous material	NA
<b>BY Air or Vessel (49 CFR 175-176)</b>	Not a hazardous material	NA

<b>Section 13. Regulatory Information</b>					
<b>EXPOSURE GUIDELINES</b>					
<b>REGULATED MATERIAL</b>	<b>NIOSH REL</b>	<b>OSHA PEL</b>	<b>OSHA STEL</b>	<b>ACGIH TLV</b>	<b>ACGIH STEL</b>
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>	
<b>EPCRA (SARA) TITLE III Extremely Hazardous Substances (302):</b> NA					
<b>Hazardous Substances (311, 312):</b> 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.					
<b>HAZARD CATEGORIES</b>					
<b>Acute Health:</b> Yes			<b>Fire:</b> Yes		
<b>Chronic Health:</b> No			<b>Reactive:</b> No		
<b>RCRA:</b> Not a hazardous waste as defined by 40 CFR 261.					
<b>TSCA:</b> All of the ingredients in this product are on the TSCA inventory.					
<b>State Right-to-Know:</b> Many states have enacted Right-To-Know laws that require information beyond that mandated by federal laws. The information in this sheet may not meet every state's requirements.					
<b>Toxic Substances (313):</b> Components present in the product at levels that could require reporting.					
<b>CHEMICAL NAME</b>	<b>CAS #</b>	<b>MAX. %</b>	<b>COMMENTS</b>		

NOTE: The opinions expressed herein are those of MILACRON MARKETING COMPANY LLC 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 conditions of use of this product are beyond the control of MILACRON MARKETING COMPANY LLC, no guarantee or representation, expressed or implied, is made. It is the user's obligation to determine the conditions of safe use of this product.