

MATERIAL SAFETY DATA SHEET

STARLUBE 310CF

METALWORKING LUBRICANT

Section 1. Chemical Product and Company Identification	
Product Name: STARLUBE 310CF	Generic Name: Metalworking Lubricant
Manufacturer: MILACRON MARKETING COMPANY LLC 3000 Disney Street Cincinnati, Ohio 45209	Emergency Telephone Number: 1-800-424-9300 (CHEMTREC) Information Telephone Number: 513-458-8199 Date Prepared: 12/20/2010 MSDS No.: 923
Material Uses: Metalworking lubricant for spray or mist applications	

Section 2. Hazardous Ingredient/Identity Information
This product is non-hazardous in accordance with 29 CFR 1900.1200(d)

Section 3. Hazard Identity	
Product is combustible. Spills could result in slippery conditions. No other significant health effects are associated with this product.	
Inhalation	Product is not volatile. Extended exposure to mists during use may cause upper respiratory irritation.
Eye Contact	Product is not a primary eye irritant.
Skin Contact	Product is not a primary skin irritant.
Ingestion	Not orally toxic.
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.	
Carcinogen Listings	NTP: No IARC: No OSHA: No
Signs and symptoms of exposure: 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 medical attention if irritation develops.			
Skin contact: In case of skin contact, wash with soap and water.			
Ingestion: Do not induce vomiting if swallowed. Dilute by drinking water or milk. Swallowing small amounts is not expected to cause injury.			
Inhalation: Inhalation can occur in applications that generate high mist levels. Remove individual to fresh air if respiratory irritation is experienced. OSHA has set a 15 mg/M ³ PEL as a nuisance level for airborne particulates.			
Section 5. Fire and Explosion Data			
Flash Point (COC), °F: 330			
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, hydrogen chloride and oxides of carbon			
NFPA Ratings	Health	Flammability	Reactivity
	0	1	0

Section 6. Accidental Release Measures
Contain the spill, and collect on absorbent material. Discard according to Federal, state and local regulations.
Reportable Quantity: None

Section 7. Handling and Storage
Use only as recommended by MILACRON MARKETING COMPANY LLC. Avoid contact with eyes or skin. Do not swallow. Store indoors at room temperature. If frozen, thaw completely to room temperature and stir thoroughly prior to use.
Other Precautions – Product is combustible. Avoid open flames and sparks.

Section 8. Exposure Control/Personal Protection
Respiratory Protection: 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			
Boiling Point	NA	Evaporation Rate	NA
Specific Gravity	0.89	Solubility in Water	Insoluble
Vapor Pressure (mm Hg)	ND	Appearance/Odor	Clear, Yellow/Mild Fatty Ester
Melting Point	ND		NA
Vapor Density	ND		

Section 10. Stability/Reactivity	
Stability: Stable	
Conditions to Avoid: Sparks, flames and all other ignition sources.	
Materials to Avoid: Avoid contact with strong acids or oxidizers.	
Hazardous Polymerization: Will not occur.	
Combustion Products: Smoke, fumes, hydrogen chloride, and oxides of carbon	

Section 11. Disposal Considerations	
For Used Product: Disposal procedures must comply with Federal, state, county, and local regulations.	
For Unused Product: Not a hazardous waste as defined by 40 CFR 261.	
CAUTION: 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.	

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

Section 13. Regulatory Information					
EXPOSURE GUIDELINES					
REGULATED MATERIAL	NIOSH REL	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
Metalworking Fluid Mist	0.5 mg/M ³				
Natural Vegetable Oil		10 mg/M ³		10 mg/M ³	10 mg/M ³
EPCRA (SARA) TITLE III Extremely Hazardous Substances (302): None					
Hazardous Substances (311, 312): Product is not a hazardous substance as defined under the OSHA Hazard Communication Standard.					
HAZARD CATEGORIES					
Acute Health: No			Fire: Yes		
Chronic Health: No			Reactive: No		
RCRA: Not a hazardous waste as defined by 40 CFR 261.					
TSCA: All of the ingredients in this product are on the TSCA inventory.					
State Right-to-Know: 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.					
Toxic Substances (313): Components present in the product at levels that could require reporting: None					
CHEMICAL NAME	CAS #	MAX. %	COMMENTS		

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.