



SPECIALIZED LUBRICANTS

1. Substance/Product Identification

Product Name: 113 VarniClean

Company/Address: Schaeffer Mfg

102 Barton Street

Saint Louis, Missouri 63104

USA

Preparation/Revision Date: 05/11/2011

Product Use/Type: Anti-wear hydraulic additive and cleaner

Emergency Phone Number: +1 314 865-4105 (24-hour response number)

+ 1 314 865-4100 (Business hours 8:30AM-5:00PM)

1-800-325-9962 (US & Canada)

Website: www.schaefferoil.com

MSDS Number: 113 Version 1.0

2. Hazards Identification

Appearance: Dark liquid

Odor: Mild odor

Principal Hazards: Warning! Causes serious eye irritation. Harmful if inhaled or absorbed through the skin. Combustible Liquid. May cause skin irritation. My cause chronic health effects based on data with laboratory animals. Chronic exposure may affect central nervous system, kidneys and liver.

**Hazardous Materials Information System
(U.S.A)**

Health: 1

Fire: 2

Reactivity: 0

**National Fire Protection Agency System
(U.S.A.)**

Health: 1

Fire: 2

Reactivity: 0

See Section 11 for complete health hazard information

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3. Composition and Information on Ingredients

Hazardous Ingredients

Ingredient Name	CAS No.	EU Number	Percentage (by wt.)
2-Ethylhexanol	104-76-7	203-234-3	10 to 19.9

Symbols



4. First Aid Measures

Ingestion: Do not induce vomiting. Seek medical attention immediately

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists seek medical attention

Inhalation: Remove exposed person to fresh air if adverse effects are observed. If breathing is labored administer oxygen. If breathing has stopped, apply artificial respiration

Skin: Wash with soap and water. Remove contaminated clothing. If skin irritation occurs or persists seek medical attention

Additional Information: Note to physician: treat symptomatically

5. Fire Fighting Measures:

Flash Point: 187°F (86°C), PMCC

Extinguishing Media: CO₂, dry chemical or foam. Water can be used to cool and protect exposed containers

Firefighting Procedures: Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus

Unusual Fire & Explosion: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion

Hazards: Container may rupture on heating

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6. Accidental Release Measures

Spill Procedures and Clean up methods: Evacuate all non-essential personnel. Personal protective equipment must be worn. Eliminate all ignition sources if safe to do so. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed with inert materials. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Collect used absorbent material and discard as dictated by National, International, Federal, State, Provincial and local laws and regulations. Spills are very slippery and should be cleaned up promptly.

Personal Precautions: Wear appropriate personal protective equipment when cleaning up spills.

Environmental Precautions: .S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required. Report spills to all applicable National, International, Federal, State, Provincial and local authorities

7. Handling & Storage

Handling: Avoid all contact of product with eyes and skin. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow or inhale vapors. Do not eat, drink or smoke in work areas. Keep away from potential sources of ignition. Maximum handling temperature for this product is 140°F (60°C)

Storage: Do not store product at elevated temperatures. Store this product as a combustible liquid. Store this product in a cool dry place that has adequate ventilation. Maximum storage temperature is 113°F (45°C). Do not store near food or feed products. Do not store near sources of ignition. Keep containers closed when not in use.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid and/or vapor) and can be dangerous. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition. There may explode and cause injury or death. Empty containers should be completely drained, properly closed and promptly returned to a drum reconditioner or disposed of properly.

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8. Exposure Controls and Personal Protection

Occupational Exposure Limits

Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
2- Ethylhexanol	N/E		N/E	

- (s)-Skin exposure
- (p) proposed limit
- (c) – Ceiling limit
- (l) Recommended exposure limit
- (u) supplier limit
- (N/E) – not established

Other Exposure Limits: Under conditions which may generate mists, observe OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter for oil mists

Engineering Controls: If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m³ for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Gloves: Nitrile or oil resistant gloves

Protective Clothing: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.

Eye Protection: Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.

Skin Protection: Wear impervious protective clothing to prevent skin contact.

Respiratory Protection: If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m³ or other applicable standards for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge

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9. Physical and Chemical Properties

Flash Point: 187°F (86°C), PMCC

Specific Gravity: 0.93

Upper Flammable Limit (UEL): Not determined

Lower Flammable Limit (LEL): Not determined

Vapor Pressure: Not determined

Vapor Density (air =1): >1

Percent Volatile: Not determined

Evaporation Rate (Butyl Acetate = 1): <1

pH: Not applicable

Boiling Point: >392°F (>200°C)

Melting Point: Not applicable

Appearance: Dark liquid

Odor: Mild

Solubility in Water: Insoluble

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise specified

10. Stability and Reactivity

Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Materials to Avoid: Oxidizers

Polymerization: Not expected to occur during conditions of normal use.

Thermal Decomposition: Smoke, carbon monoxide, aldehydes and other products of incomplete combustion

Conditions to Avoid: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

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11. Toxicological Information:

Routes of Exposure: Skin, eyes, ingestion and inhalation

Target Organs: Skin, eyes, upper respiratory tract, kidney, liver

Acute Exposure

Ingestion: Ingestion may cause central nervous system depression

Eye Contact: Weak to moderate eye irritation and redness to eyes. Product does not meet EU R36 criteria based on data for similar materials. Vapors may cause irritation and tearing, especially if heated

Skin Contact: Contact with skin may cause skin irritation. Does not meet Canadian D2B or EU R38 criteria based on similar materials. Prolonged or repeated skin contact may cause dermatitis. Symptoms may include redness, edema, drying and cracking and skin

Inhalation: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.. Exposure to a high concentration of vapor or mist may cause severe irritation to the nose and upper respiratory tract

Dermal Sensitization: No data available to indicate product or components that may a dermal sensitizer

Inhalation Sensitization: No data available to indicate product or components that may a dermal sensitizer inhalation sensitizer.

Carcinogenicity: This product does not contain greater than 0.1%any of the chemicals listed on the United States National Toxicology Program Annual Reports on Carcinogens, The International Agency for Cancer Research Monographs and United State's Occupational Safety and Health Administrations 29CFR 1910.10 Subpart Z List.

Additional Toxicological Information:

The Oral LD50 in rats is >2000 mg/Kg based on data from components or similar materials

The Dermal LD50 in rabbits is >2000 mg/Kg based on data from components or similar materials. Prolonged or widespread contact with this material could result in the absorption of potentially harmful materials

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12. Environmental and Ecological Information

Ecotoxicity

The ecotoxicity of this product had not been determined

Environmental Fate

Biodegradation: This material is not expected to be readily biodegradable

Bioaccumulation: Not established

Water Class Hazard (Germany): Water Hazard Class 1 according to appendix 4 VwVwS dated 27.7.2005

13. Disposal Considerations

Waste Handling and Disposal: This product in its neat state when discarded or disposed of is not a hazardous waste according to United States Federal Regulations 40CFR 261.4 (b)(4). Dispose of product in accordance with all applicable National, Federal, State, Provincial and local laws and regulations. Under RCRA, it is the responsibility of the user of this product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Do not re-use empty containers

14. Transport Information

US DOT Classification Non-Bulk: Not regulated

US DOT Classification Bulk: NA 1993, Combustible Liquids, N.O.S., (2-Ethylhexanol), PG III

IMDG Classification: Not regulated

IATA/ICAO Classification: Not regulated

ADR: Not regulated as a hazardous material or dangerous good for transportation.

ADNR: Not regulated as a hazardous material or dangerous good for transportation.

RID: Not regulated as a hazardous material or dangerous good for transportation.

Canadian TDG: Not regulated as a hazardous material or dangerous good for transportation

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15. Regulatory Information

Hazard Symbols

EU



Xi Irritant



GHS Symbol:

Relevant R Phrases

R36/38 – Irritating to eyes and skin

R52/53 – Harmful to aquatic organisms, may cause long term adverse effects to aquatic environments

Relevant Hazard Phrases

H319 – Causes serious eye irritation

US Regulations

TSCA Inventory: All of the components in this material are on the US TSCA Inventory or are exempt.

State of California Proposition 65: This product contains the following chemicals known to the State of California to cause cancer and/or birth defects based on maximum impurity levels of components: <0.005 ppm Ethylene Oxide CAS# 75-21-8, 0.0012% Propylene oxide CAS# 75-56-9

US EPA SARA Title III and CERCLA Listings and Reportable Quantities

This product does not contain any of the chemicals listed on the US EPA's SARA Title III and CERCLA Lists.

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15. Regulatory Information

US EPA Section 311/313 Classifications

None

US EPA Section 313 Chemicals

This product does not contain any of the chemicals listed on the US EPA's Section 313 List.

Other Regulations:

Canada: All of the ingredients of this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substance List

Canadian WHMIS Classifications and Symbols: This product is not considered to be a WHMIS hazard

EEC: All components are in compliance with the EC Seventh Amendment Directive 92/32/EEC

16. Other Information

For additional information call +1 314-865-4100 (outside the US and Canada) or 1-800-325-9962 inside the United States and Canada.

Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Schaeffer Mfg. Company makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Schaeffer Mfg. Company be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. **No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.**