

MATERIAL SAFETY DATA SHEET

Manufacturer: Schaeffer Mfg. Company		Emergency Response Number:				
Address: 102 Barton Street		314-865-4105 or				
Address: St. Louis, MO 63104		800-325-9962				
SECTION 1 – PRODUCT INFORMATION						
Chemical Family: Mixture		Trade Name: #112B Biodegradable Hydraulic Fluid ISO 68				
Formula: Proprietary Mixture						
SECTION 2 – HAZARDOUS INGREDIENTS						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES	CAS Number	%	Exposure Limits			
			TVL		PEL	
			ppm	mg/m ³	ppm	mg/m ³
High oleic acid vegetable base oils from sunflower oil	8001-21-6	64-65		10		10
TrimethylPropane trioleate; 2-Ethyl-2-(hydroxymethyl)-1,3-Propanediol, Esters with Oleic Acid	57675-44-2	25-26		NE		NE
Butylated Phenols		0.4-0.8		NE		NE
Diphenylamine	122-39-4	0.004-0.036		10		10
Section 3 – PHYSICAL DATA						
Boiling Point:	>300°F/149°C	Specific Gravity:			.92	
Vapor Pressure (mm, Hg):	Not Determined	% Volatile:			Unknown	
Vapor Density (Air = 1):	Not Determined	Evaporation Rate: (=1)			Not Determined	
Solubility in Water:	Insoluble	pH:			Not Applicable	
Appearance and Odor: Amber color liquid, mild odor.						
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA						
Flash Point (Method) °F/°C: 540°F/282.22°C C.O.C. (ASTM D-92)		Flammability Limits UEL & LEL ----: Not Determined				
Extinguishing Media: Carbon dioxide foam, dry chemical foam, sand, earth, waterfog.						
Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined space without protective equipment including self-contained breathing apparatus.						
Unusual Fire & Explosion Hazards: Dense black smoke.						
SECTION 5 - REACTIVITY HAZARD DATA						
STABILITY	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE	Hazardous Decomposition		<input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR	
Conditions to Avoid: High heat, high energy ignition sources						
Incompatibility (Mat. to avoid): Strong oxidants						
Hazardous Decomposition Products: Carbon monoxides and aldehydes.						
Conditions to Avoid: None						
SECTION 6 - HEALTH HAZARD DATA						
Threshold Limit Value and Sources: 10/mg/m ³ for oil mist. OSHA & ACGIH.						
Acute Effects of Overexposure:						
Ingestion:	Nausea and Diarrhea.					
Eye Contact:	Irritation and redness to eyes					
Skin Contact:	Prolonged and repeated contact with the skin may cause dermatitis.					
Inhalation:	Inhalation of oil mists or vapors at elevated temperatures may cause irritation to the upper respiratory tract.					
CHRONIC EFFECTS OF OVEREXPOSURE: None currently known						
Emergency and First Aid Procedures:						
Swallowing:	If conscious give 2 glasses of water. Do not induce vomiting. Seek medical attention immediately..					
Skin:	Wash skin thoroughly with soap and water. Launder contaminated clothing.					
Inhalation:	Remove victim to fresh air. If breathing is labored administer oxygen. If breathing has stopped start artificial respiration immediately.					
Eyes:	Flush eyes with clear, cool, clean water for 15 minutes. Seek medical attention immediately					
SECTION 7 – SPILL OR LEAK PROCEDURES						
Environmental Impact: Though this product is biodegradable, all oil spills even those of vegetable oil base products must be reported to the National Response Center (U.S. Coast Guard) if they are spilled into rivers, creeks, streams or other natural waterways or courses. The Coast Guard Toll Free No. 800-424-8802.						
Procedures To Be Taken If Material Is Released or Spilled: Prevent entry into sewers and waterways. Absorb spills with absorbent material. Pick up and put in waste disposal drum.						
Waste Disposal Method: Material if discarded is not expected to be a characteristic hazardous waste under RCRA Waste Management and disposal should be done in compliance with all applicable federal, state, and local laws and regulations.						
SECTION 8 – SPECIAL PROTECTION INFORMATION						
Respiratory Protection:	None required under ordinary conditions of use.					
Ventilation:	No special requirement under ordinary conditions of use and with adequate ventilation.					
Eye Protection:	Goggles of face shield.					
Protective Clothing:	Impervious gloves (neoprene or nitrile)					
SECTION 9 – SPECIAL PRECAUTIONS						
Precautions To Be Taken In Handling and Storage: Keep containers closed when not in use. Wash thoroughly after handling.						
Special Comments: No special storage precautions are required.						

Date Prepared: 4/30/04

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SECTION 10 – ADDITIONAL HEALTH AND TOXICOLOGICAL DATA

This product does not contain any of the chemicals that are considered to be carcinogenic by the National Toxicology Program Annual Reports, OSHA's subpart Z list or the International Agency for Cancer Research Monographs.

This product does not contain greater than 1% of any chemical substances listed under SARA Section 313, CERCLA's 302/304 and 102 (a) lists.

This product does not contain any of the chemicals that are found on the State of California's Proposition 65 List to cause cancer or birth defects based on maximum impurity levels of components:

<1 ppb lead
<1 ppb arsenic

All of the components in this material are on the US TSCA Inventory. All of the components in this material are in compliance with the Canadian Environmental Act.

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.**