

MATERIAL SAFETY DATA SHEET

Manufacturer: Schaeffer Mfg. Company		Emergency Response Number:					
Address: 102 Barton Street		314-865-4105 (24-hour emergency					
Address: St. Louis, MO 63104		number) or					
		800-325-9962					
SECTION 1 – PRODUCT INFORMATION							
Chemical Family: Petroleum Hydrocarbons and Additives		Trade Name: #112NZ HTC No Zinc ISO 46					
Formula: Solvent refined severely hydro-finished paraffin base oils. Multi-functional anti-wear, rust and oxidation inhibitor additive package, surfurized oxymolybdenum organophosphorodithiolate.							
SECTION 2 – HAZARDOUS INGREDIENTS							
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES	CAS Number	%	Exposure Limits				
			TVL		PEL		
			ppm	Mg/m ³	ppm	mg/m ³	
Petroleum Base Oils	64742-54-7	97-99		5			5
Phosphoric acid esters, amine salts	Proprietary	0.44-0.55		NE			NE
Diphenylamine	122-39-4	<0.01		10			
Butylated phenols	Confidential	<0.22		NE			NE
Molybdenum Di-2-Ethylhexyl Phosphorodithiolate	72030-25-2	<1		10			15
CI Solvent 98 Blue Dye	74499-36-8	.05		NE			NE
Section 3 – PHYSICAL DATA							
Boiling Point:	>600 $^{\circ}$ F/315.5 $^{\circ}$ C	Specific Gravity:	.8708				
Vapor Pressure (mm, Hg):	<.1	% Volatile:	Nil				
Vapor Density (Air = 1):	Not Determined	Evaporation Rate: (=1)	Not Determined				
Solubility in Water:	Insoluble	pH:	Not Applicable				
Appearance and Odor: Blue color, mild odor.							
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA							
Flash Point (Method) $^{\circ}$F/$^{\circ}$C: 430 $^{\circ}$ F/221 $^{\circ}$ 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 OCCUR			
Conditions to Avoid: High heat, high energy ignition sources							
Incompatibility (Mat. to avoid): Strong oxidants							
Hazardous Decomposition Products: Oxides of carbon, sulfur, phosphorus, and nitrogen							
Conditions to Avoid: None							
SECTION 6 - HEALTH HAZARD DATA							
Threshold Limit Value and Sources: 5.0/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 can cause irritation and redness to skin.						
Inhalation:	Vapors can be given off under high heat conditions excessive breathing of vapors can cause irritation of the respiratory tract.						
CHRONIC EFFECTS OF OVEREXPOSURE: None currently known							
Emergency and First Aid Procedures:							
Swallowing:	If a large amount of this material is swallowed give a large amount of water to drink. 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: This material is not expected to present any environmental problems other than those associated with oil spills. If spilled into a watercourse, call the Coast Guard Toll Free No. 800-424-8802.							
Procedures To Be Taken If Material Is Released or Spilled: Immediately absorb spilled material with absorbent clay, diatomaceous earth or other suitable material. Keep out of sewers and waterways.							
Waste Disposal Method: Dispose of at an approved waste or disposal site facility in accordance with all applicable federal, state and local laws and regulations. This product is not considered to be a RCRA hazardous waste.							
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:	Oil resistant gloves.						

SECTION 9 – SPECIAL PRECAUTIONS	
Precautions To Be Taken In Handling and Storage: Do not store near heat, spark, flame or strong oxidizers. Keep containers closed when not in use.	
Special Comments: Remove oil soaked clothing, launder before reuse. Wash skin thoroughly with soap and water after handling. Keep away from food and feed products	
SECTION 10 – ADDITIONAL HEALTH AND TOXICOLOGICAL DATA	
<p>This product does not contain any of the chemicals listed on the National Toxicology Program Annual Reports on Carcinogens, The International Agency for Cancer Research Monographs and OSHA's 1910.10 Subpart Z List.</p> <p>This product does not contain any chemicals that are found on the State of California's Proposition 65 List for chemicals classified as potential reproductive or cancer causing agent.</p> <p>This product does not contain greater than 1% of any chemical substance listed under the SARA Title III Section 313, CERCLA's 302/304 and 102(a) Lists.</p> <p>All components in this material are on the US TSCA Inventory. All components in this material are in compliance with the Canadian Environmental Protection Act.</p>	

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