

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: #112A HTC OIL ISO 220				
Formula: Solvent refined severely hydro-finished paraffin base oils, multi-functional anti-wear rust and oxidation inhibitor additive package, sulfurized 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
Zinc Dialkyldithiophosphate	68649-42-3	.225-0.45		NE		
Molybdenum Di-2-Ethylhexyl phosphorodithiolate	72030-25-3	<1		10		
2, 6-di-tert-butylphenol	128-39-2			NE		
C1 Solvent 98 Blue Dye	74499-36-8	.05	NE			
Petroleum Base Oil	64742-65-0, 64742-54-7, 64742-57-0, 64742-62-7	98-99		5		5
Section 3 – PHYSICAL DATA						
Boiling Point:	>600 ^{°F} /315.5 ^{°C}	Specific Gravity:	.8927			
Vapor Pressure (mm, Hg):	<.1	% Volatile:	NIL			
Vapor Density (Air = 1):	Not Determined	Evaporation Rate: (=1)	Not Determined			
Solubility in Water:	Not Determined	pH:	Not Determined			
Appearance and Odor: Blue color, mild odor.						
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA						
Flash Point (Method) ^{°F}/^{°C}: 510 ^{°F} /265.5 ^{°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 <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: Oxides of carbon, sulfur, phosphorus, 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. Seek medical attention immediately. Do not induce vomiting.					
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 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 or 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 or 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		
HMIS & NFPA Ratings: Health = 1 Fire = 1 Reactivity = 0		
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.		
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.		
SARA Title III Information: This product contains .225-0.45% Zinc Dialkyldithiophosphate CAS#68649-42-3		
All of the components in this material are on the US TSCA Inventory. All components 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.**