

MATERIAL SAFETY DATA SHEET

Manufacturer: Schaeffer Mfg. Company		Emergency Response Number:				
Address: 102 Barton Street		314-865-4105 (24-hour emergency response				
Address: St. Louis, MO 63104		number) or 800-325-9962				
SECTION 1 – PRODUCT INFORMATION						
Chemical Family: Emulsifier base, Petroleum Hydrocarbons and Additives		Trade Name: #311 Synkool SS™				
Formula: Severely hydro-treated petroleum base oils, emulsifiers, corrosion inhibitor, biocides, water						
SECTION 2 – HAZARDOUS INGREDIENTS						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES	CAS Number	%	Exposure Limits			
			TVL		PEL	
			ppm	mg/m ³	ppm	mg/m ³
Alkanolamine	102-71-6	3-8	5			
Hexahydro-1, 3, 5-tris (2-hydroxyethyl)-s-Triazine	4719-04-5	1-2	NE		NE	
Sodium Omadine	3811-73-2	<0.5	NE		NE	
Section 3 – PHYSICAL DATA						
Boiling Point:	>300°F/148.8°C	Specific Gravity:	0.9957			
Vapor Pressure (mm, Hg):	Not Determined	% Volatile:	Nil			
Vapor Density (Air = 1):	>1	Evaporation Rate: (=1)	Not Established			
Solubility in Water:	Soluble	pH:	9 - 10			
Appearance and Odor: clear, mild odor. Blue-green color						
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA						
Flash Point (Method) °F/°C: None-aqueous solution		Flammability Limits UEL & LEL ---- Not Determined				
Extinguishing Media: After water evaporates, residue can burn. Carbon dioxide foam, dry chemical foam, sand, earth, waterfog.						
Special Fire Fighting Procedures: Use supplied breathing air, oxides of nitrogen can evolve.						
Unusual Fire & Explosion Hazards: None expected.						
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: None						
Incompatibility (Mat. to avoid): Strong oxidizers						
Hazardous Decomposition Products: Oxides of carbon, sulfur, 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:	Diluted solutions of #311-have a low order of toxicity and are not expected to be a problem. Ingestion of undiluted product may cause nausea and severe irritation of the mucous membranes.					
Eye Contact:	Severe irritation to the eyes. May cause conjunctivitis.					
Skin Contact:	Undiluted #311 can cause irritation and redness. Diluted solutions may cause skin irritation in persons susceptible to dermatitis.					
Inhalation:	None currently known. Mist may cause chest discomfort and coughing.					
CHRONIC EFFECTS OF OVEREXPOSURE: None currently known						
Emergency and First Aid Procedures:						
Swallowing:	If undiluted Synkool-SS is ingested, drink large amounts of fluid such as water, milk or egg whites. 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.						
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 impervious garment if there is the possibility of excessive skin contact.					

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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. Avoid inhalation of vapor or mist.	
Special Comments: Before disposing of 311 Synkool-SS out of the sump, all tramp oil should be skimmed off. Dispose of the final product after skimming in accordance with all federal, state and local laws and regulations. Keep away from food and feed products.	
SECTION 10 – ADDITIONAL HEALTH AND TOXICOLOGICAL DATA	
HMIS AND NFPA RATINGS	
Heath = 2 Fire = 0 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.	
This product contains amines. As such, coolants or corrosion inhibiting chemicals containing nitrites should not be mixed with this fluid. Such a mixture can cause the formation or nitrosamine. Nitrosamine have been found to be carcinogenic. The use of #311AL-1 with products containing nitrites is extremely discouraged.	
SARA Title III Information:	
This product contains 3-8% Alkanolamine CAS#102-71-6 which is listed on Section 313 of SARA Title III.	
All of the components in this material are on the US TSCA Inventory. All components are in compliance with the Canadian Environmental Act.	
DOT /IATA/IMDG Proper Shipping Name: Not applicable. Non-Hazardous and Non Regulated	

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