

MATERIAL SAFETY DATA SHEET

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SECTION 1 – PRODUCT INFORMATION

Chemical Family: Petroleum Hydrocarbons and Additives	Trade Name: Metatron 559 Synkool-M
Formula: Polyalkylene glycols, extreme pressure agents, corrosion inhibitors, biocides, anti-foam agents, 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
Triethanolamine	102-71-6	<5	NE	NE		
4-(2-Nitrolbutyl) morpholine	2224-44-4	<.5	20			
4, 4-(2-Ethyl-2-Nitrotrimethylene)-dimorpholine	1854-23-5	<.5	20			

Section 3 – PHYSICAL DATA

Boiling Point:	300°F/148.8°C	Specific Gravity:	1.03
Vapor Pressure (mm, Hg):	.1	% Volatile:	Nil
Vapor Density (Air = 1):	>1	Evaporation Rate: (=1)	.01
Solubility in Water:	Complete Solubility	pH:	10

Appearance and Odor: Clear, pale yellow color, slight peppermint smell

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method) °F/°C: Non-Aqueous Solution	Flammability Limits UEL & LEL ----None
Extinguishing Media: After water evaporates, residues can burn. Carbon dioxide foam, dry chemical foam, waterfog.	
Special Fire Fighting Procedures: Use supplied breathing air, oxides of nitrogen can evolve.	
Unusual Fire & Explosion Hazards: None	

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, sodium nitrate	
Hazardous Decomposition Products: Oxides of carbon, 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:	Diluted solutions of #173 Synkool-M have a low order of toxicity and are not expected to be a problem. Ingestion of the undiluted product may cause nausea and severe irritation of the mucous membrane.
Eye Contact:	Severe irritation to the eyes. May cause conjunctivitis.
Skin Contact:	Undiluted Synkool-M 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: See section 10	
Emergency and First Aid Procedures:	
Swallowing:	If undiluted Synkool-M is ingested, drink large amount 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 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 cause any serious environmental hazard..
Procedures To Be Taken If Material Is Released or Spilled: Absorb spilled material with absorbent clay, diatomaceous earth or other suitable material.
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:	Impervious aprons.

SECTION 9 – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Do not store near strong oxidizers. Avoid inhalation of vapor or mists. Launder before reuse. Wash skin thoroughly with soap and water after handling. Keep away from food and feed products
Special Comments: Synkool-M is biodegradable and can be safely discharged in the waste water system as long as the waste water system has a process that aerates and churns the waste water. All tramp oils should be removed from the spend Synkool-M by skimming before disposal into the waste water system.

SECTION 10 – ADDITIONAL HEALTH AND TOXICOLOGICAL DATA

This product contains triethanolamines. Triethanolamines have been shown to cause liver and kidney damage if they are ingested repeatedly or over a prolonged period of time.

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 of nitrosamines. Nitrosamines have been found to be carcinogenic. The use of Synkool-M with products containing nitrites is extremely discouraged.

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 does not contain any of them chemicals that are listed in SARA Title's Section 313,302 and 304 list or CERCLA's 102 (a) list.

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