

REVISION DATE: 01-15-2004

SUPERCEDES: 01-06-2004

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC(R)	1-800-424-9300; 1-703-527-3887 (Int.)
FOR ALL OTHER EMERGENCIES, CALL	1-800-215-1618
FOR ALL MSDS QUESTIONS & REQUESTS CALL	1-513-793-7766

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MICHEMLUBE 270R
Product Code: ML270R
Company: Michelman, Inc.
9080 Shell Road
Cincinnati, Ohio 45236 USA

II. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT
This product contains no hazardous or carcinogenic components at concentrations requiring reporting under OSHA 1910.1200.		

III. HAZARDS IDENTIFICATION**HMIS Ratings:** Health: 1, Flammability: 0, Reactivity: 0, PPE B**Routes of Entry:** Skin contact, Eye contact**Target Organs:** No organs known to be damaged from exposure to this product.**Medical Conditions Aggravated by Exposure:** No medical conditions affected by exposure.**Immediate (Acute) Health Effects by Route of Entry:****Inhalation Irritation:** No hazard in normal industrial use.**Skin Contact:** Can cause minor skin irritation, defatting, and dermatitis.**Skin Absorption:** No absorption hazard in normal industrial use.**Eye Contact:** Can cause minor irritation, tearing and reddening.**Ingestion Irritation:** No hazard in normal industrial use.**Long-Term (Chronic) Health Effects:****Carcinogenicity:** None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.**Reproductive and Developmental Toxicity:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.**IV. FIRST AID****Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.**Eyes:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.**Skin Contact:** Wash with soap and water. Remove contaminated clothing and laundry. Get medical attention if irritation develops or persists.**Ingestion:** No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.**Notes to Doctor:** No additional first aid information available**V. FIRE FIGHTING MEASURES****Flammability Summary:** Not combustible**Flash Point:**

B-A.55

Autoignition Temperature: Not Determined
Lower Explosive Limit (% in air): Not Determined
Upper Explosive Limit (% in air): Not Determined

Extinguishing Media: Not combustible. Use extinguishing media appropriate for surrounding fire. **Fire Hazards:** Material will not ignite or burn except when evaporated to dryness.

Fire Fighting Instructions: Will not burn, no special instructions available. Use methods appropriate for surrounding materials.

VI. ACCIDENTAL RELEASE MEASURES

Special Protection: No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section VIII of this MSDS.

Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120).

VII. HANDLING AND STORAGE

Handling: No special handling instructions due to toxicity.

Storage: Store in a cool dry place. Isolate from incompatible materials. Keep from freezing. Use prior to expiration date located on the product label.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: No exposure limits exist for the constituents of this product. No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

Respiratory Tract: No respiratory protection required under normal conditions of use.

Respirator Type(s): Not normally required.

Eyes: Wear safety glasses when handling this product.

Skin: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile

Chemical Name
Potassium hydroxide

ACGIH EXPOSURE LIMITS
No TLV

OSHA EXPOSURE LIMITS
No PEL established

IX. PHYSICAL AND CHEMICAL DATA

Odor: Mild
pH: 8.5-9.5
Solubility in Water: Moderate; 50-99%
Octanol/Water Coeff: Not Determined
Vapor Pressure (mmHg): 17.5
Specific Gravity: 0.969
Bulk Density (lbs/gal): 8.3
VOC Percent by Weight: 0.0771
Lbs. VOC per lb. of Product: 0.000771
Boiling Point: Not Determined
Melting Point: Not Determined

X. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

B-A.55

MICHEMLUBE 270R

Conditions to Avoid: None known.
Chemical Incompatibility: None Known
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

XI. TOXICOLOGICAL INFORMATION

Toxicology Summary: No additional toxicology information available.

Chemical Name LD50/LC50, NIOSH Selected Values
 No data available

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	Spent or discarded material is not expected to be a hazardous waste.
Disposal Methods:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.
Product Characteristic Hazardous Waste Code:	NONE

EPA Waste Codes for Components:
 NONE

Components subject to EPA Land Disposal Restrictions: NONE

XIV. TRANSPORTATION INFORMATION

Rail/Road: NOT REGULATED BY DOT
Air: NOT REGULATED BY IATA

Please refer to the Bill of Lading for the most up to date shipping information for this container size and mode of transport.

XV. REGULATORY INFORMATION

NATIONAL CHEMICAL INVENTORY INFORMATION

Components of this product are listed on the following inventories (U=Unknown; Y=Yes; N=No)

TSCA Status	(United States)	Y
ACOINS/AICS Status	(Australia)	Y
EINCES Status	(Europe)	Y
DSL Status	(Canada)	Y
MITI Status	(Japan)	Y
LECS Status	(Korea)	Y
PICCS Status	(Philippines)	U

<u>Chemical Name</u>	<u>Regulation</u>	<u>CAS RN</u>	<u>%</u>
No 313 listed chemicals in this product.	SARA 313 Reportable		
No EHSs in this product.	Extremely Hazardous Substances		
No listed components in this product.	Prop 65 Carcinogens (Metals)		

No listed components in this product. Prop 65 Carcinogens

CERTIFICATIONS

CONEG (HEAVY METALS)

Based on information provided by our suppliers, the raw materials used in the manufacture of this product contain no toxic heavy metals in concentrations greater than trace levels including lead, mercury, cadmium and hexavalent chromium which are not present in concentrations at or greater than 100 ppm as specified in the CONEG model legislation for Toxics in Packaging.

NATURAL RUBBER INFORMATION

This product is not manufactured with, nor does it contain, natural rubber as defined in 21 CFR 801.437(b).

ORGANO TINS INFORMATION

This product is not manufactured with, nor does it contain, organo-tin compounds.

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (CAS# 19408-74-3) INFORMATION

This product is not manufactured with, nor does it contain, 2,3,7,8-tetrachlorodibenzo-p-dioxin.

XVI. ADDITIONAL INFORMATION

USER'S RESPONSIBILITY

The information provided in the attached Material Safety Data Sheet pertains to the product as supplied by Michelman, Inc. While the descriptions, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. The responsibility to provide a safe working place remains with the user. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.