

**KANO LABORATORIES, INC.  
SAFETY DATA SHEET**

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Microil  
**Product Use:** Industrial Lubricant

**Manufacturer:** Kano Laboratories, Inc.  
1000 E. Thompson Lane  
Nashville, TN 37211  
**Emergency Phone Number:** Chemtrec 1 (800) 424-9300  
**Manufacturer Phone Number:** (615) 833-4101  
**Website:** www.kroil.com  
**SDS Date of Preparation:** October 5th, 2016

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS / HAZCOM 2012 Classification:**

Not classified as hazardous according to 29 CFR 1910.1200 (2012)

Label Elements:  
None required.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	%
Highly Refined Mineral Oil	Mixture	100

**SECTION 4: FIRST AID MEASURES**

**Eye:** Rinse thoroughly with water for several minutes, holding the eye lids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

**Skin:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

**Inhalation:** Remove victim to fresh air. If breathing is difficult or irritation develops, get medical attention.

**Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious or drowsy person. Get medical attention.

**Most important symptoms and effects, acute and delayed:** May cause mild eye irritation. Prolonged skin contact may cause irritation and drying of the skin. Inhalation of vapors or mist may cause upper respiratory tract irritation and central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting or diarrhea.

**Indication of immediate medical attention and special treatment, if needed:** No immediate medical attention is required.

**SECTION 5: FIRE FIGHTING MEASURES**

**Suitable (and Unsuitable) Extinguishing Media:** Use water fog, carbon dioxide, dry chemical or foam.

**Specific Hazards Arising from the Chemical:** Product is not flammable but will burn under fire conditions. Combustion may produce oxides of carbon and unidentified organic compounds.

**Special Protective Equipment and Precautions for Fire-fighters:** Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, Protective equipment, and Emergency procedures:** Wear appropriate protective clothing to prevent eye and skin contact as described in Section 8. Wash thoroughly after handling.

**Environmental precautions:** Report spills and releases as required to appropriate authorities.

**Methods and Materials for Containment and Cleaning up:** Cover with an inert absorbent material and collect into an appropriate container for disposal. After removal, flush contaminated area thoroughly with water.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling:** Avoid contact with the eyes, skin and clothing. Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Wash thoroughly with soap and water after use. Keep containers closed when not in use.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, dry, well-ventilated location away from oxidizing agents and other incompatible materials.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Chemical Name	Exposure Limits
Highly Refined Mineral Oil	5 mg/m <sup>3</sup> TWA OSHA PEL (as oil mist) 5 mg/m <sup>3</sup> ACGIH TLV (as mineral oil)

**Appropriate Engineering Controls:** None needed under normal use conditions. Use with adequate general or local exhaust ventilation to maintain concentrations below the occupational exposure limits.

**Personal Protective Equipment:**

**Respiratory Protection:** If exposures are excessive, a NIOSH approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

**Hand protection:** Impervious gloves are recommended when needed to avoid skin contact.

**Eye Protection:** Chemical safety goggles recommended if splashing is possible.

**Skin Protection:** Impervious clothing as required to prevent skin contact and contamination of personal clothing.

**Hygiene measures:** Suitable washing facilities should be available in the work area.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Amber liquid	<b>Odor:</b>	Petroleum odor
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	Not applicable
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point/Range:</b>	599°F (315°C)
<b>Flash Point:</b>	327°F(164°C) COC	<b>Evaporation Rate:</b>	Not available
		<b>(ether=1):</b>	
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	UEL: Not available LEL: Not available

<b>Vapor Pressure:</b>	<0.01 mmHg @ 100°F	<b>Vapor Density (air = 1):</b>	>1
<b>Relative Density:</b>	0.91 @ 60°F	<b>Solubilities:</b>	Insoluble in Water
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not available	<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available	<b>Viscosity:</b>	28 cSt @ 40°C (104°F)

#### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** None known.

**Chemical Stability:** Stable under normal conditions of storage or use.

**Possibility of Hazardous Reactions:** None known.

**Conditions to avoid:** None known.

**Incompatible Materials:** Avoid strong oxidizing agents and acids.

**Hazardous decomposition products:** Combustion will produce oxides of carbon and unidentified organic compounds.

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### Potential Health Effects:

**Eye:** May cause mild eye irritation with redness and tearing.

**Skin:** May cause mild irritation with redness. Prolonged or repeated contact may result in defatting of the skin and dermatitis.

**Inhalation:** Inhalation of vapors or mists may cause mucous membrane and upper respiratory tract irritation.

**Ingestion:** Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Hazards:** None known.

**Carcinogen Status:** None of the components of this product at greater than 0.1% are listed as carcinogens by OSHA, IARC or NTP.

##### Acute toxicity:

Highly Refined Mineral Oil: Oral rat LD50 >5000 mg/kg; Inhalation rat LC50 >5mg/L/4 hr; Skin rabbit LD50 >2000 mg/kg

#### SECTION 12: ECOLOGICAL INFORMATION

##### Ecotoxicity:

Highly Refined Mineral Oil: No data available.

**Persistence and Degradability:** Highly refined mineral oil: is expected to be readily biodegradable.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** None known.

#### SECTION 13: DISPOSAL INFORMATION

**Disposal instructions:** Dispose of product in accordance with all local, state/provincial and federal regulations.

**Contaminated packaging:** Offer rinsed packaging material to local recycling facilities.

**SECTION 14: TRANSPORT INFORMATION**

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
<b>DOT Ground</b>		Not Regulated			None
<b>DOT / 49CFR</b>		Not Regulated			None
<b>IMDG</b>		Not Regulated			None
<b>IATA</b>		Not Regulated			None

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known.

**SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:**

**CERCLA 103 Reportable Quantity:** This product is not subject to CERCLA reporting requirements. Many states have more stringent reporting requirements. Report spills and other releases as required under federal, state and local regulations.

**SARA TITLE III:**

**Hazard Category for Section 311/312:** Not hazardous

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory.

**SECTION 16: OTHER INFORMATION**

**HMIS Ratings:** Health - 0                      Flammability - 1                      Reactivity - 0  
**NFPA Ratings:** Health - 0                      Flammability - 1                      Reactivity - 0

**SDS Revision History:** Converted to GHS format - all sections revised.

**Date of preparation:** October 5th, 2016

**Date of last revision:** January 27th, 2016

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