

MATERIAL SAFETY DATA SHEET

SECTION I

Product Name or Number (as it appears on label): Kroil**Manufacturers Name:** Kano Laboratories, Inc.**Address:** P.O. Box 110098, Nashville, TN 37222-0098**Emergency Telephone No:** 800-424-9300 (Chemtrec)**Manufacturer's DUNS No:** N/A**Hazardous Material Description, Proper Shipping Name,****Hazard Class, Hazard ID No. (49 CFR 172.101):** N/A, Petroleum Distillate, N/A, N/A**Additional Hazard Classes (as applicable):** N/A**Chemical Family:** Petroleum Lubricant**Formula:** Proprietary

SECTION II - INGREDIENTS

CAS REGISTRY AS A	%W	CHEMICAL NAME(S)	OHSA/ACGIH	LISTED
NO.		PEL/TLV PPM	CARCINOGEN IN NTP, IARC OR OSHA 1910 (z) (Specify)	
64742-46-7 No	30%- 50%	Petroleum Base Oil	5.0 mg/m3 TWA	
78-92-2	1% - 10%	Aliphatic Petroleum Distillate	50 TWA	No
64742-95-6	1% - 10%	Petroleum Solvent	50 TWA	No
111-76-2 No	1% - 10%	Aliphatic Hydrocarbon Solvent	50 TWA	
	1% - 20%	Proprietary Mixture	50 TWA	No
64742-47-8	20%-40%	Petroleum Naptha	100 TWA	No
123-42-2	1% - 10%	Hydrocarbon Solvent	75 STEL	No

All ingredients in Kroil are listed in the TOSCA inventory list

SECTION III - PHYSICAL DATA

Boiling Point: 270 degrees F.**Specific Gravity (H2) = 1):** .88**NFPA 704 DESIGNATION****Vapor Pressure @ E20 C. 2 MM Hg****Percent Volatile by Volume (%):** 60**Flammability - 2****Vapor Density (AIR-1):** N/A**Evaporation Rate (-1):** But.Acet, less than 1**Health****- 1****Solubility in Water:** NIL**pH:** 6.0 - 7.0**Reactivity - 0****Percent Solid By Weight (%):** 0**Material is:** Liquid**Special Hazard -****Appearance & Odor:** Liquid, slight reddish color, pleasant odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 153 degrees F. - **Method Used:** COC**Flammable Limits:** LFL - N/A UFL - N/A**Extinguishing Media:** CO2, Dry Chemical, Foam**Special Fire Fighting Procedures:** Usual procedure for solvents. Treat as combustible. Do not use water.**Unusual Fire & Explosion Hazards:** Never use welding or cutting torch on or near cans or drums. Do not mix or store with strong oxidants. Store at room temperature.

SECTION V - HEALTH HAZARD DATA

Symptoms & Effects of Overexposure: EYE - burning & irritation. SKIN-dryness. Prolonged exposure may cause dermatitis. INHALATION may cause headache, dizziness, anesthesia, nausea, & upper respiratory irritation. INGESTION may cause lung irritation, nausea, vomiting & diarrhea.

Harmful or fatal if swallowed.

Primary Routes of Entry: Inhalation

Emergency and First Aid Procedures: EYE- Immediately flush with large amounts of water for 15 minutes. SKIN-wash with mild soap and water, apply skin cream. INHALATION- remove to fresh air. If breathing is difficult administer oxygen, if breathing stops give artificial respiration. Get medical attention. INGESTION- Contains hydrocarbon solvents and petroleum oil. Do not induce vomiting, call physician immediately. Minute amounts aspirated into lungs during ingestion may cause severe pulmonary damage. Do not administer epinephrine or adrenaline.

SECTION VI - REACTIVITY DATA

Stability: Stable **Conditions To Avoid:** Heat, Sparks, Open Flame. Strong Oxidants.

Incompatibility (materials to avoid): Strong Oxidizing Agents.

Hazardous Decomposition Products: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

Hazardous Polymerization: Will not occur

Conditions To Avoid: NA

SECTION VII - SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released or Spilled: Wipe up immediately with absorbent rags, sweeping compound or other absorbent material. Remove or extinguish all flames and sparks. Do not flush into sewer.

Waste Disposal Method: Bury saturated absorbent in approved landfill. Dispose of as any combustible fuel in accordance with local, state and federal regulations.

Cercla (Superfund) Reportable Quantity (in lbs): NA **RCRA Hazardous Waste No. (40 CFR 261.33):** NA

Volatile Organic Compound (VOC) (as packaged, minus water): NA

Theoretical: 7.8 lb/gal **Analytical:** 7.8 lb/gal,l

SECTION VII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (specify type): NOISH approved respirator for vapors if desired.

Ventilation - Local Exhaust (specify rate): Normal Local Exhaust System. **Special:** None

required. **Ventilation - Mechanical (General) (Specify Rate):** Normal Ventilation is sufficient.

Other: None Required. **Protective Gloves:** Chemically resistant gloves if needed to protect skin.

Eye Protection: If splash potential exists, wear chemical splash goggles.

Other Protective Equipment: None needed.

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing: Keep away from excessive heat, sparks and open flame. Do not take internally. Do not leave container open. Store in cool area.

Other Precautions: Use with proper ventilation. Wearing contact lenses is not advisable. If swallowed can enter lungs and may cause chemical pneumonitis. Do not administer epinephrine or adrenaline. Keep away from children and animals. Do not puncture containers.

The above information is based on information available at this time and is believed to be accurate. However, the data is provided without warranty, expressed or implied. It is the user's responsibility to

determine safe conditions for use of this product. We expressly disclaim all liability for reliance thereon, and assume no liability with any use of this information.

Title: Chairman

Date: February 8, 2002

Name (print): P. R. Zimmerman

Signature: *P. R. Zimmerman*