

4 = EXTREME
 3 = HIGH
 2 = MODERATE
 1 = SLIGHT
 0 = INSIGNIFICANT

FLAMMABILITY

HEALTH



REACTIVITY

SPECIAL HAZARD

MATERIAL SAFETY DATA SHEET

SECTION I

HMIS RATING

PRODUCT NAME OR NUMBER (as it appears on label) KROIL			
MANUFACTURER'S NAME KANO LABORATORIES, INC.		EMERGENCY TELEPHONE NO. 615-833-4101	
ADDRESS (Number, Street, City, State and Zip Code) 1000 S. Thompson Lane, Nashville, TN 37211-2627		MANUFACTURER'S D-U-N-S 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 NO.	%W	%V	CHEMICAL NAME(S)	OSHA/ACGIH PEL/TLV PPM	Listed as a Carcinogen in NTP, IARC or OSHA 1910(z) (Specify)
64742-46-7	30%	50%	Petroleum Base Oil (Severely Solvent Treated)	5.0 mg/m ³ TWA	No
78-92-2	1%	10%	Aliphatic Petroleum Distillate	50 TWA	No
64742-95-6	1%	10%	Petroleum Solvent	50 TWA	No
111-76-2	1%	10%	Aliphatic Hydrocarbon Solvent	50 TWA	No
-	1%	20%	Non-Hazardous Proprietary Mixture	-	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.					
TOTAL		100%			

SECTION III—PHYSICAL DATA

BOILING POINT 250°F °C	SPECIFIC GRAVITY (H ₂ O=1)	.88	
VAPOR PRESSURE @ °F °C 3 mm Hg psf	PERCENT VOLATILE BY VOLUME (%)	60	PERCENT SOLID BY WEIGHT (%) 0
VAPOR DENSITY (AIR-1)	N/A	EVAPORATION RATE (-1) But. Acet. less than 1	
SOLUBILITY IN WATER	NIL	pH-	6.0
APPEARANCE AND ODOR Liquid, slight reddish color, pleasant odor	IS MATERIAL: LIQUID SOLID GAS PASTE POWDER		

SECTION IV—FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 130 °F °C method used COC	FLAMMABLE LIMITS	LFL N/A	UFL N/A
EXTINGUISHING MEDIA CO ₂ , Dry Chemical, Foam			
SPECIAL FIRE FIGHTING PROCEDURES Usual procedure for solvents. Treat as combustible. Do not use water.			
UNUSUAL FIRE AND 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: <u>EYE</u> —burning & irritation. <u>SKIN</u> —dryness. Prolonged exposure may cause dermatitis. <u>INHALATION</u> may cause headache, dizziness, anesthesia, nausea & upper respiratory irritation.	THRESHOLD LIMIT VALUE PERMISSIBLE EXPOSURE LIMIT	OTHER LIMIT N/A
<u>INGESTION</u> may cause lung irritation, nausea, vomiting & diarrhea. Harmful or fatal if swallowed.		
PRIMARY ROUTES OF ENTRY Inhalation <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Other (Specify) <input type="checkbox"/>		
EMERGENCY AND FIRST AID PROCEDURES <u>EYE</u> —Immediately flush with large amounts of water for 15 minutes. <u>SKIN</u> —wash with mild soap and water, apply skin cream. <u>INHALATION</u> —remove to fresh air. If breathing is difficult administer oxygen, if breathing stops give artificial respiration. Get medical attention. <u>INGESTION</u> —Contains hydrocarbon solvents and petroleum oil. Do not induce vomiting, call physician immediately. Minute amount aspirated into lungs during ingestion may cause severe pulmonary damage. Do not administer epinephrine or adrenaline.		

SECTION VI—REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Heat, Sparks, Open Flame. Strong Oxidants.
	STABLE	X	
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	MAY OCCUR		CONDITIONS TO AVOID N/A
	WILL NOT OCCUR	X	

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) N/A	
RCRA HAZARDOUS WASTE NO. (40 CFR 261.33) N/A	
VOLATILE ORGANIC COMPOUND (VOC) (as packaged, minus water) N/A	
<input type="checkbox"/> Theoretical <u>7.8</u> lb/gal	<input type="checkbox"/> Analytical <u>7.8</u> lb/gal

SECTION VIII—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.	
	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.	
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Title Chairman	Name (print) P.R. Zimmerman
Date November 28, 1989	Signature <i>P.R. Zimmerman</i>