KANO LABORATORIES, LLC SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Penephite **Product Use:** Penetrant/Lubricant for Industrial Use

Manufacturer: Kano Laboratories, LLC 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: February 1, 2022

SECTION 2: HAZARD IDENTIFICATION

GHS / HAZCOM 2012 Classification:

Health	Physical
Skin Irritation Category 2	Flammable Liquid Category 3
Aspiration Hazard Category 1	

Label Elements:

Danger!



Flammable liquid and vapor. Causes skin irritation. May be fatal if swallowed and enters airways.

Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment
Use explosion-proof electrical, ventilating and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear protective gloves.
IF SWALLOWED: Immediately call a POISON CENTER. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.
In case of fire: Use carbon dioxide, dry chemical, or foam to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	%
Severely Hydrotreated Petroleum Distillates	64742-52-5	45-55
LVP Aliphatic Hydrocarbon	64742-47-8	20-40
Diisobutyl Ketone	108-83-8	5-15

The exact percentage has been withheld as a trade secret or is a variation in formula.

SECTION 4: FIRST AID MEASURES

Eye: Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

Skin: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation occurs. Launder clothing before re-use.

Inhalation: Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop.

Ingestion: DO NOT induce vomiting. Keep the victim calm and warm. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

Most important symptoms and effects, acute and delayed: May cause skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, nausea, and vomiting. Harmful or fatal if swallowed. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

Indication of immediate medical attention and special treatment, if needed: If swallowed, get immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use carbon dioxide, dry chemical or foam. Water may be ineffective but can be used to cool containers and structures.

Specific Hazards Arising from the Chemical: Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Never use welding or cutting torch on or near containers (even empty) because product can ignite explosively. Combustion products may be hazardous: Oxides of carbon, organic compounds, smoke and fumes.

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 including impervious gloves, safety goggles and respirator if needed. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Ventilate the area with explosion-proof equipment.

Environmental precautions: Avoid release to the environment. 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.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing vapors, aerosols, and mists. Use with adequate ventilation. Avoid contact with the eyes, skin, and clothing. Wash exposed skin thoroughly with soap and water after use. Keep product away from heat, sparks, flames, and all other sources of ignition. No smoking in storage or use areas.

Other Precautions: Do not cut, braze, solder, grind, or weld empty containers. Do not reuse containers. Follow all SDS precautions in handling empty containers.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Severely Hydrotreated Petroleum Distillates (as mineral oil)	5 mg/m ³ TWA OSHA PEL (as oil mist)
	5 mg/m ³ TWA ACGIH TLV (inhalable fraction)
LVP Aliphatic Hydrocarbon	100 ppm TWA Manufacturer Recommended
Diisobutyl Ketone	50 ppm TWA OSHA PEL

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain concentrations below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

Personal Protective Equipment:

Respiratory Protection: If the exposure limits listed above are exceeded, 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 glasses or goggles recommended to avoid eye contact.

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

Hygiene measures: Suitable eye wash and washing facilities should be available in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black liquid	Odor:	Hydrocarbon-like
Odor Threshold:	Not available	pH:	Not available
Melting/Freezing Point:	Not available	Boiling Point/Range:	Not available
Flash Point:	120.2°F (49°C) (Diisobutyl Ketone)	Evaporation Rate:	Not available
Flammability (Solid, Gas):	Not applicable	Flammability Limits:	UEL: 7.0% (LVP Aliphatic Hydrocarbon) LEL: 0.6% (LVP Aliphatic Hydrocarbon)
Vapor Pressure:	Not available	Vapor Density:	Not available
Relative Density:	Not available	Solubilities:	Negligible in Water
Partition Coefficient (N- Octanol/Water):	Not available	Autoignition Temperature:	Not available

Decomposition	Not available	Viscosity:	Not available
Temperature:			

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: Avoid heat, sparks, flames, and all other sources of ignition.

Incompatible Materials: Avoid strong oxidizing agents, reducing agents, acids, and bases.

Hazardous decomposition products: Combustion will produce oxides of carbon, organic compounds, smoke, and fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eye: May cause eye irritation with redness, tearing and stinging.

Skin: May cause skin irritation with redness, rash, swelling. Prolonged or repeated contact may result in defatting and dermatitis.

Inhalation: Inhalation of vapors or mists may cause mucous membrane and upper respiratory tract irritation and central nervous system depression. Symptoms may include coughing, wheezing, shortness of breath, headache, dizziness, drowsiness, nausea, fatigue, and unconsciousness.

Ingestion: Swallowing may cause gastrointestinal irritation with abdominal pain, nausea, vomiting and diarrhea and central nervous system depression with symptoms including headache, dizziness, intoxication, weakness, nausea, and vomiting. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

Chronic Hazards: None expected.

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: Toxicological testing has not been performed on this product as a mixture.

Severely Hydrotreated Petroleum Distillates: Oral rat LD50 >5000 mg/kg, Dermal rabbit LD50 >2000 mg/kg, Inhalation rat LC50 2.18 mg/L/4hr

LVP Aliphatic Hydrocarbon: Oral rat LD50 >2000 mg/kg, Dermal rat LD50 > 5000 mg/kg, Inhalation rat LC50 > 6.8 mg/L/4 hr.

Diisobutyl Ketone: Oral rat LD50 5233 mg/kg, Dermal rat LD50 > 2000 mg/kg, Inhalation rat LC50 14.5 mg/L/4 hr.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No toxicity data available for the product.

Severely Hydrotreated Petroleum Distillates: 48 hr EC50 daphnia magna >1000 mg/L LVP Aliphatic Hydrocarbon: 96 hr LC50 Oncorhynchus mykiss 2.9 mg/L

Diisobutyl Ketone: 96 hr LC50 Oncorhynchus mykiss 30 mg/L, 48 hr EC50 daphnia magna 37.2 mg/L,

Persistence and Degradability: Diisobutyl Ketone is 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
DOT (in containers <119 gallons)		Excepted from Hazmat			
DOT (in containers> 119 gallons	UN1993	Flammable liquid, n.o.s. (Petroleum Distillates, Diisobutyl Ketone)	3	PGIII	None
DOT Air	UN1993	Flammable liquid, n.o.s. (Petroleum Distillates, Diisobutyl Ketone)	3	PGIII	None
TDG (in containers <119 gallons		Not regulated in small means of containment			
TDG (in containers > 119 gallons	UN1993	Flammable liquid, n.o.s. (Petroleum Distillates, Diisobutyl Ketone)	3	PGIII	None
IMDG	UN1993	Flammable liquid, n.o.s. (Petroleum Distillates, Diisobutyl Ketone)	3	PGIII	None
IATA	UN1993	Flammable liquid, n.o.s. (Petroleum Distillates, Diisobutyl Ketone)	3	PGIII	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, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state, and local regulations.

STATE REPORTING REGULATIONS:

California Proposition 65: This product does not contain substances known in the State of California to cause cancer and/or reproductive harm.

SARA TITLE III:

Hazard Category for Section 311/312: Refer to Section 2 for the OSHA Hazard Classification.

Section 302 Extremely Hazardous Substances (TPQ): None

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

International Chemical Inventories:

Canadian DSL: All the components in this product are listed on the Canadian Domestic Substances List.

Australian Inventory of Chemical Substances: All the components in this product are listed on AICS.

New Zealand Inventory of Chemicals: All the components in this product are listed on the NZIoC.

China Inventory of Existing Chemicals and Chemical Substances: All the components in this product are listed on the IECSC for China.

SECTION 15: OTHER INFORMATION

HMIS Ratings: Health - 2 NFPA Ratings: Health - 2

Flammability - 2 Flammability - 2 Physical Hazard – 0 Instability – 0 Penephite 2/1/22

SDS Revision History: Updated Sections 2, 3, 4, 8, 9, 11, 12, 14, and 15. **Date of Preparation:** February 1, 2022 **Date of last revision:** June 11, 2021

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