KANO LABORATORIES, INC.
SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Pyrolube
Product Use: Lubricant for Industrial Use

Manufacturer: Kano Laboratories, LLC.
1000 E. Thompson Lane
Nashville, TN 37222
Information Phone Number: (615) 833-4101
Fax: (615) 833-5790
Website: www.kroil.com

SDS Date of Preparation: February 9, 2022

SECTION 2: HAZARDS IDENTIFICATION

GHS / HAZCOM 2012 Classification:

Health	Physical
Aspiration Hazard Category 1	Flammable Liquid Category 4

Label Elements

Danger!

Combustible Liquid.
May be fatal if swallowed and enters airways.

Keep away from flames and hot surfaces. No smoking.
IF SWALLOWED: Immediately call a POISON CENTER.
Do NOT induce vomiting.
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#	%
Aliphatic Hydrocarbons	64742-47-8	50-80
Graphite	778212-4	0.5-5%

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 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. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop.

Ingestion: Rinse mouth with water. 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 mild eye irritation. Causes skin irritation. Inhalation of vapors or mist may cause mild respiratory tract irritation. 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: Combustible liquid. Liquid and vapors can ignite if exposed to open flames or ignition sources. Never use welding or cutting torch on or near containers (even empty) because product can ignite. Combustion may produce carbon oxides, aluminum oxides, 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 avoid eye and skin contact including impervious gloves, safety goggles and respirator if needed. Ventilate area. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc.

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
Aliphatic Hydrocarbons	525 mg/m3 TWA Manufacturer
Graphite	5 mg/m3 TWA (respirable), 15 mg/m3 TWA (total

	dust) OSHA PEL 2 mg/m3 TWA ACGIH TLV (respirable)

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain concentrations below the occupational exposure limits.

Personal Protective Equipment:

Respiratory Protection: If needed, 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 prolonged or repeated skin contact. Based on available test data, neoprene or nitrile gloves are suggested.

Eye Protection: Follow facility requirements.

Skin Protection: Impervious clothing as required to avoid 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:	Gray liquid	**Odor:**	Solvent
Odor Threshold:	Not available	**pH:**	Not applicable
Melting/Freezing Point:	Not available	**Boiling Point/Range:**	416-449°F (213-232°C)
Flash Point:	174°F (79°C) TAG	**Evaporation Rate: (ether=1):**	<1
Flammability: (Solid, Gas)	Not applicable	**Flammability Limits:**	UEL: 7.0% LEL: 0.6%
Vapor Pressure:	<1 @ 20°C	**Vapor Density:**	>1
Relative Density:	0.77	**Solubilities:**	Insoluble in Water
Partition Coefficient: (N-Octanol/Water)	Not available	**Autoignition Temperature:**	448°F (231°C)
Decomposition Temperature:	Not available	**Viscosity:**	< 20.5 mm^2/sec @ 40°C

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 sources of ignition.
Incompatible Materials: Avoid strong oxidizing agents.
Hazardous decomposition products: Combustion will produce carbon oxides, aluminum oxides smoke and fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

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

Skin: Prolonged or repeated contact may result in defatting and dermatitis.

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

Ingestion: Swallowing may cause gastrointestinal irritation with abdominal pain, nausea, vomiting and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

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: Toxicological testing has not been performed on this product as a mixture.
Acute Toxicity Estimate: Oral >2000 mg/kg, Inhalation >7.04 mg/kg, Dermal >5000 mg/kg
Aliphatic Hydrocarbons: Oral rat LD50 > 5000 mg/kg; Dermal rat LD50 > 2000-4000 mg/kg
Inhalation rat LC50 > 6.8 mg/L/4 hr.
Graphite: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >2.0 mg/L/4 hr (no mortalities)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No toxicity data available for the product.
Aliphatic Hydrocarbons: Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.
Graphite: 96 hr LC50 Danio rerio >100 mg/L, 48 hr EC50 daphnia magna >100 mg/L,
72 hr EC50 Pseudokirchnerella subcapitata >100 mg/L

Persistence and Degradability: Aliphatic hydrocarbons: Readily biodegradable.

B**ioaccumulative Potential:** Aliphatic hydrocarbons have the potential to bioaccumulate.

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	NA1993	Combustible liquid, n.o.s. (Petroleum Distillates)	3	PGIII	None
IMDG		Not regulated			
IATA		Not regulated			

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.

SARA TITLE III:

Hazard Category for Section 311/312: Classified as per OSHA GHS classification in Section 2 of this SDS.

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 - 1	Flammability - 2	Physical Hazard - 0
NFPA Ratings:	Health - 1	Flammability - 2	Instability - 0

SDS Revision History: Section 3 – change in formulation range.
Date of preparation: February 9, 2022
Date of last revision: July 19, 2021

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