

**KANO LABORATORIES LLC
SAFETY DATA SHEET**

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Pyrolube Grease

Product Use: Lubricating Grease

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: July 19, 2021

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#	%
Petroleum Paraffinic Base Oil	64742-70-7	100
Natural Graphite	7782-42-5	1-5
Crystalline Silica, Quartz*	14808-60-7	0.1-0.5

*Carcinogen classification applies to respirable forms only. Not applicable to this product.

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 persists. Launder clothing before re-use.

Inhalation: Remove person 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 drying of the skin. Inhalation of mist may cause upper respiratory tract irritation. 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
Petroleum Paraffinic Base Oil	5 mg/m ³ TWA OSHA PEL (as oil mist) 5 mg/m ³ (inhalable) TWA ACGIH TLV (as
Natural Graphite	5 mg/m ³ TWA (respirable), 15 mg/m ³ TWA (total dust) OSHA PEL 2 mg/m ³ TWA ACGIH TLV (respirable)
Crystalline Silica, Quartz	0.05 mg/m ³ (respirable) TWA OSHA PEL 0.025 mg/m ³ (respirable) TWA ACGIH TLV

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: None needed under normal use conditions. If exposures are excessive, a NIOSH approved respirator with organic vapor cartridges with particulate prefilter may be used. 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 avoid skin contact.

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

Skin Protection: Impervious clothing as required to avoid prolonged 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

Appearance:	Black grease	Odor:	No specific odor
Odor Threshold:	Not applicable	pH:	Not applicable
Melting/Freezing Point:	Not available	Boiling Point/Range:	Not available
Flash Point:	>300.2°F(149°C)	Evaporation Rate:	<1
Flammability: (Solid, Gas)	Not applicable	(ether=1):	
		Flammability Limits:	UEL: Not available LEL: Not available
Vapor Pressure:	Not available	Vapor Density (air = 1):	Not available
Relative Density:	0.90	Solubilities:	Insoluble in Water
Partition Coefficient:	Not available	Autoignition	Not available
(N-Octanol/Water)		Temperature:	
Decomposition	Not available	Viscosity:	>20.5 cSt @ 40°C (104°F)
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: Extreme heat and open flames.

Incompatible Materials: Avoid strong oxidizing agents.

Hazardous decomposition products: Combustion will produce oxides of carbon, nitrogen and molybdenum 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 mists from heated product 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: This product contains small amount of crystalline silica, quartz, which is listed by IARC as “Carcinogenic to Humans” (Group 1) and “Known to be a Human Carcinogen” by NTP. Crystalline silica, quartz only presents a risk of cancer by inhalation of very fine dust. In this product, the crystalline silica, quartz is incorporated into the grease and is not present as a respirable dust. There is no exposure to respirable crystalline silica, quartz dust in the normal use of this product. None of the other components are listed as a carcinogen or suspect carcinogen by IARC, NTP or OSHA.

Acute toxicity:

Petroleum Paraffinic Base Oil: Oral Rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.53 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg

Natural Graphite: Oral Rat LD50 >2000 mg/kg, Inhalation rat LC50 >2.0 mg/L/4 hr (no mortalities)

Crystalline Silica, Quartz: Oral rat LD50 >22,500 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Petroleum Paraffinic Base Oil: 96 hr LL50 Pimephales promelas >100 mg/L, 48 hr EL50 daphnia magna >10,000 mg/L, 96 hr NOEL Pseudokirchnerella subcapitata >100 mg/L
Natural 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
Crystalline Silica, Quartz: LC50 carp >10,000 mg/L/72 hr..

Persistence and Degradability: Petroleum paraffinic base oil is inherently biodegradable

Bioaccumulative Potential: Petroleum paraffinic base oil has the potential to bioaccumulate in aquatic organisms.

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 Ground		Not Regulated			None
DOT / 49CFR		Not Regulated			None
IMDG		Not Regulated			None
IATA		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

Physical Hazard - 0

NFPA Ratings: Health - 0

Flammability - 1

Instability - 0

SDS Revision History: Updates to Sections 8.

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The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or the consequences of its use or misuse.