

**KANO LABORATORIES, INC.  
SAFETY DATA SHEET**

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** SILIKROIL

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

**Manufacturer:** Kano Laboratories, Inc.  
1000 E. Thompson Lane  
Nashville, TN 37211

**Emergency Phone Number:** 1 (800) 424-9300

**Manufacturer Phone Number:** (615) 833-4101

**Website:** www.kanolabs.com

**SDS Date of Preparation:** June 6, 2018

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS / HAZCOM 2012 Classification:**

| <b>Health</b>  | <b>Physical</b>    |
|--|--------------------|
| Skin Irritation Category 2<br>Eye Irritation Category 2A<br>Specific Target Organ Toxicity – Single Exposure<br>Category 3 (Respiratory Irritation, CNS)<br>Aspiration Hazard Category 1 | Flammable Liquid 3 |

Label Elements

**Danger!**



Flammable Liquid and vapor.  
Causes skin irritation.  
Causes serious eye irritation.  
May be fatal if swallowed and enters airways.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.

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.  
Avoid breathing mist, vapors or spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, eye protection and face protection.  
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.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell.

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#                                   | %     |
|---|--|-------|
| Petroleum Distillates                       | 64742-47-8<br>64742-96-7<br>64742-95-6 | 40-60 |
| Severely Hydrotreated Petroleum Distillates | 64742-52-5                             | 30-50 |
| Diisobutyl Ketone                           | 108-83-8                               | 0-15  |
| 1,2,4-trimethylbenzene                      | 95-63-6                                | <15   |
| Proprietary Ingredient                      | Proprietary                            | 1-10  |
| Silicone                                    | 63148-62-9                             | 1-10  |
| Aliphatic Alcohol #1                        | 123-42-2                               | <3    |
| Aliphatic Alcohol #2                        | 78-83-1                                | <3    |

**The specific identity and/or exact percentage has been withheld as a trade secret.**

### SECTION 4: FIRST AID MEASURES

**Eye:** Rinse thoroughly with water for at least 15 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 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.

**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 eye and 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.

**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.

**Environmental precautions:** Avoid release to the environment. Report spills and releases as required to appropriate authorities.

**Methods and Materials for Containment and Cleaning up:** Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Ventilate area. 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 | 5 mg/m <sup>3</sup> TWA OSHA PEL<br>5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable fraction) |
| Petroleum Distillates                       | 500 ppm TWA OSHA PEL (As stoddard solvent)<br>200 ppm TWA ACGIH TLV (as kerosene)          |
| Diisobutyl Ketone                           | 25 ppm TWA OSHA PEL<br>50 ppm TWA ACGIH TLV  |
| 1,2,4-trimethylbenzene                      | 25 ppm TWA ACGIH TLV   |
| Proprietary Ingredient                      | None Established   |
| Silicone                                    | None Established   |
| Aliphatic Alcohol #1                        | 50 ppm TWA OSHA PEL<br>50 ppm TWA ACGIH TLV  |
| Aliphatic Alcohol #2                        | 100 ppm TWA OSHA PEL<br>50 ppm TWA ACGIH TLV   |

**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 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 goggles recommended.

**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

|   |                         |                             |  |
|---|-------------------------|-----------------------------|--|
| <b>Appearance:</b>                                  | Slightly reddish liquid | <b>Odor:</b>                | Refreshing   |
| <b>Odor Threshold:</b>                              | Not available           | <b>pH:</b>                  | 6-7  |
| <b>Melting/Freezing Point:</b>                      | Not available           | <b>Boiling Point/Range:</b> | 258°F (125.5°C)  |
| <b>Flash Point:</b>                                 | 132°F (55.5°C) COC      | <b>Evaporation Rate:</b>    | <1   |
| <b>Flammability: (Solid, Gas)</b>                   | Not applicable          | <b>Flammability Limits:</b> | UEL: 10.9% (isobutanol)<br>LEL: 0.7% (heavy aliphatic solvent naphtha) |
| <b>Vapor Pressure:</b>                              | Not available           | <b>Vapor Density:</b>       | Not available  |
| <b>Relative Density:</b>                            | 0.87                    | <b>Solubilities:</b>        | Negligible in Water  |
| <b>Partition Coefficient:<br/>(N-Octanol/Water)</b> | Not available           | <b>Autoignition</b>         | Not available  |
| <b>Decomposition<br/>Temperature:</b>               | Not available           | <b>Temperature:</b>         |  |
|   |                         | <b>Viscosity:</b>           | Not available  |

#### 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, acetone, acrid fumes and smoke.

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### Potential Health Effects:

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

**Skin:** May cause 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:** Prolonged or repeated exposure may cause effects on the central nervous system, kidney and liver.

**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 35 714 mg/kg, Inhalation >5 mg/kg, Dermal >2000 mg/kg  
Severely Hydrotreated Petroleum Distillates: Oral rat LD50 > 5000 mg/kg; Dermal rat LD50 > 5000 mg/kg  
Inhalation rat LC50 > 2.18 mg/L/4 hr.  
Petroleum Distillates: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.28 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg  
Diisobutyl Ketone: Oral rat LD50 5233 mg/kg; Dermal rat LD50 > 2000 mg/kg; Inhalation rat LC50 14.5 mg/L/4 hr.  
Proprietary Ingredients: Oral rat LD50 2760 mg/kg; Dermal rabbit LD50 >2000 mg/kg  
Silicone: No toxicity data available  
Aliphatic Alcohol #1: Oral rat LD50 3002 mg/kg; Dermal rat LD50 > 1875 mg/kg; Inhalation rat LC50> 7.6 mg/L/4 hr.  
Aliphatic Alcohol #2: Oral rat LD50 > 2830 mg/kg; Inhalation rat LC50 24.6 mg/L/4 hr.; Dermal rabbit LD50 > 2000 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** No toxicity data available for the product.  
Severely Hydrotreated Petroleum Distillates: 96 hr. LC50 Pimephales promelas > 100 mg/L; 48 hr. EC50 daphnia magna>1000 mg/L; 72 hr. EC50 Pseudokirchnerella subcapitata > 100 mg/L  
Petroleum Distillates: 96 hr LL50 Oncorhynchus mykiss 2.5 mg/kg, 48 hr EL50 daphnia magna 1.4 mg/L, 72 hr EL50 Pseudokirchnerella subcapitata 1.3 mg/L  
Diisobutyl Ketone: 96 hr. LC50 Oncorhynchus mykiss 30 mg/L; 48 hr. EC50 daphnia magna 37.2 mg/L, 72 hr. EC50 Pseudokirchnerella subcapitata 46.9 mg/L  
Proprietary Ingredients: 96 hr. LC50 Oncorhynchus mykiss 18350 ug/L  
Silicone: No data available  
Aliphatic Alcohol #1: 96 hr. LC50 Oryzias latipes >100 mg/L; 48 hr. EC50 daphnia magna >1000 mg/L; 72 hr. EC50 Pseudokirchnerella subcapitata>1000 mg/L  
Aliphatic Alcohol #2: 96 hr LC50 Pimephales promelas 1430 mg/L; 48 hr EC50 daphnia pulex 1100 mg/L; 72 hr EC50 Pseudokirchnerella subcapitata 1799 mg/L

**Persistence and Degradability:** Aliphatic alcohol #1 and aliphatic alcohol #2 are readily biodegradable. Petroleum distillates is not readily biodegradable. Heavy hydrotreated petroleum distillate is inherently biodegradable based on structurally similar chemicals.

**Bioaccumulative Potential:** Aliphatic alcohol #1 has a calculated BCF of 0.5. Diisobutyl Ketone has a calculated BCF of 7. Aliphatic Alcohol #2 has a calculated BCF of 3

**Mobility in Soil:** Aliphatic alcohol #1, aliphatic alcohol #2 and diisobutyl ketone have a high to very high mobility in soil.

**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 |
|---|-----------|--|--------------|---------------|----------------------|
| <b>DOT (in containers &lt;119 gallons)</b>  |           | Exempted from Hazmat   |              |               |                      |
| <b>DOT (in containers &gt; 119 gallons)</b> | UN1993    | Flammable liquid, n.o.s. (Aliphatic Alcohols, Petroleum Distillates) | 3            | PGIII         | None                 |
| <b>DOT Air</b>                              | UN1993    | Flammable liquid, n.o.s. (Aliphatic Alcohols, Petroleum Distillates) | 3            | PGIII         | None                 |
| <b>IMDG</b>                                 | UN1993    | Flammable liquid, n.o.s. (Aliphatic Alcohols, Petroleum Distillates) | 3            | PGIII         | None                 |
| <b>IATA</b>                                 | UN1993    | Flammable liquid, n.o.s. (Aliphatic Alcohols, Petroleum Distillates) | 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 has a Reportable Quantity (RQ) of 166,666 lbs. (based on the RQ for Aliphatic alcohol #2 of 5,000 lbs present at 3%) maximum. Releases above the RQ must be reported to the National Response Center. 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:** Refer to Section 2 for the OSHA Hazard Classification

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: 1,2,4-trimethylbenzene <15%

**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 - 2

Flammability - 2

Reactivity - 0

**NFPA Ratings:** Health - 1

Flammability - 2

Reactivity - 0

**SDS Revision History:** Sections 3, 8, 15

**Date of preparation:** June 6, 2018

**Date of last revision:** October 5th, 2016

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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.