



Material Safety Data Sheet

Material Name: LINDEN USED OIL

ID: 820135

*** Section 1 - Chemical Product and Company Identification ***

Product Code: 80779

Product Use: Additive for petroleum product. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Synonyms: None.

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APPROVED BY: MSDS Task Force

*** Section 2 - Hazardous Identification ***

EMERGENCY OVERVIEW

Appearance

Black liquid

Signal Word

WARNING!

Physical Hazards

Combustible liquid and vapor.

Health Hazards

May irritate the respiratory tract (nose, throat, and lungs), and eyes. May cause skin irritation (possibly severe).
Contains material which may cause central nervous system depression.

POTENTIAL HEALTH EFFECTS

Inhalation (Breathing)

High concentrations of generated vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects and may cause difficulty breathing and /lung congestion.

Eyes

May cause irritation.

Skin

May cause irritation and blisters. Not likely to be absorbed through the skin in harmful amounts.

Ingestion (Swallowing)

May be harmful if swallowed. May cause throat irritation, nausea, vomiting, diarrhea, and central nervous effects as noted under **INHALATION (BREATHING)**. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

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Chronic

Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

Cancer Information

No known carcinogenicity. For more information, see **SECTION 11: CARCINOGENICITY**. Also see **SECTION 15: CALIFORNIA**.

Environmental Hazards

Not available. Also see **SECTION 12: ECOLOGICAL INFORMATION**.

*** Section 3 - Composition / Information on Ingredients ***

CAS	Component	Percent
Not Available	Heavy Oils	80-90
64475-85-0	Petroleum Spirits	10-20

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Asphalt (8052-42-4), Used lubricating oil.

*** Section 4 - First Aid Measures ***

Inhalation (Breathing)

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention.

Eyes

If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

Skin

Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.

Ingestion (Swallowing)

Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

Notes to Physicians

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

*** Section 5 - Fire Fighting Measures ***

Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce oxides of carbon.

Conditions of Flammability

Heat, sparks, or flame.

Extinguishing Media

Carbon dioxide, dry chemical, or water fog. Water spray or foam may cause frothing.

Protective Equipment For Firefighting

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Fire Fighting Equipment/Instructions

Keep storage containers cool with water spray.

NFPA Ratings: Health: 1 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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Fire and Explosion Hazards

Vapor explosion hazard indoors. Vapor may travel to ignition source and flash back. Use of water may spread fire. Heated containers may rupture. Empty containers may retain residue and can be dangerous.

*** Section 6 - Accidental Release Measures ***

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to suppress vapors. Contain spill away from surface water and sewers. Hot product: contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

*** Section 7 - Handling and Storage ***

Handling Procedures

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke when using these products.

Shipping and Storing

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry, well-ventilated area. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty containers may retain product residue and be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

Personal Protective Equipment: Respiratory

A respiratory protection program with meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use.

Personal Protective Equipment: Eyes/Face

Where eye contact or exposure to vapor is likely, wear chemical goggles; contact lens use is not recommended.

Personal Protective Equipment: Skin

Where skin contact is likely, wear chemical protective gloves. Use of natural rubber (latex) or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

Personal Protective Equipment: Personal Hygiene

Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

Other Personal Protective Equipment

Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

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*** Section 9 - Physical & Chemical Properties ***

Appearance/Odor :	Black liquid	Odor:	Petroleum odor
Physical State:	Liquid	pH:	Not applicable
Boiling Point:	104-176 °F (40-80°C) (Petroleum Spirits)	Melting Point:	Not available
Solubility (H2O):	Not available	Specific Gravity:	0.88 (water = 1) (approximately)
Density:	Not available	Octanol/H2O Coeff.:	Not available
Evaporation Rate:	Not available	Molecular Weight:	Not available
Odor Threshold:	Not available	Auto Ignition:	Not available
LFL:	Not available	Flash Point:	170°F (76.7°C)
UFL:	Not available	Vapor Density:	Not available.
Vapor Pressure:	Not available		

*** Section 10 - Chemical Stability & Reactivity Information ***

Stability

Stable under normal temperatures and pressures. Avoid heat sparks, and flame.

Incompatibility

Avoid oxidizing agents.

Reactivity

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Hazardous Decomposition Products

Oxides of carbon. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

Conditions To Avoid

Avoid excessive heat and ignition sources.

*** Section 11 - Toxicological Information ***

Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

Acute Effects

May irritate the respiratory tract (nose, throat, and lungs), and eyes. May cause skin irritation (possibly severe).

Contains material which may cause central nervous system depression.

Carcinogenicity

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Sensitization

Based on best current information, there is no known human sensitization associated with this product.

Mutagenicity

Based on best current information, there is no known mutagenicity associated with these products.

Reproductive Toxicity

Based on best current information, there is no known reproductive toxicity associated with this product.

Teratogenicity

Based on best current information, there is no known teratogenicity associated with these products.

Toxicologically Synergistic Products

Based on best current information, there are no known toxicologically synergistic products associated with this product.

*** Section 12 - Ecological Information ***

Ecotoxicity

No data available for this product.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Persistence/Degradability

No information available for this product.

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Mobility in Environmental Media

No information available for the product.

Other Adverse Effects

No information available for the product.

*** Section 13 - Disposal Considerations ***

Disposal Instructions

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

US EPA Waste Number & Descriptions

None applicable. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to this product.

*** Section 14 - Transportation Information ***

Emergency Response Guide Number

128 Reference *North American Emergency Response Guidebook*

DOT Shipping Name: Combustible liquid, n.o.s. (Contains: Petroleum Spirits)

UN/NA #: UN1993 **Hazard Class:** Combustible liquid **Packing Group:** III

TDG Not regulated.

*** Section 15 - Regulatory Information ***

SARA Sections 311/312

These products pose the following health hazard(s) as defined in 40 CFR Part 370 and are subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard

Fire Hazard

SARA 302/304

Component Analysis

This product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B:

SARA Section 313

This product does not contain "toxic" chemical(s) subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Component Analysis

This product does not contain any "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA

Component Analysis

This product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA

All the components of these products are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component Analysis

Component	CAS #	TSCA
Petroleum Spirits	64475-85-0	No

California

This product may contain detectable amounts of chromium (CAS 7440-47-3), nickel (CAS 7440-02-0), cadmium (7440-36-0), cobalt (7440-48-4). WARNING: These chemicals are known to the State of California to cause cancer.

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This products may contain detectable amounts of cadmium (CAS 7440-43-9), chromium (CAS 7440-47-3), lead (7439-92-1), mercury (7439-97-6) and antimony (7440-36-0). WARNING: These chemicals are known to the State of California to cause birth defects or other reproductive harm.

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

Component	CAS #	CAN
Petroleum Spirits	64475-85-0	DSL

Canadian WHMIS Information

Class D2B - Irritating to eyes and skin. Class B3 – Combustible Liquid

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Canadian Environmental Protection Act (CEPA)

All the components of these products are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

*** Section 16 - Other Information ***

Label/Other Information

Not available.

Revision Information

Section 1, address; Section 3, composition.

Disclaimer

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplier to the user.