

DINE-AGLOW® DIVISION

SAFETY LAMP FUEL for DF10 and DF15

Liquid Wax Cells

Date Issued 06/01/09

MATERIAL SAFETY DATA SHEET

LE-JO ENTERPRISES, INC.

765 Pike Springs Rd.; Phoenixville, Pa. 19460

A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME : CAS #
Safety Lamp Fuel 8042-47-5

EMERGENCY TELEPHONE NUMBER:
CHEMTREC (24 Hours): 1-800-424-9300

CHEMICAL FAMILY
White Mineral Oil, NF

ALL MEDICAL EMERGENCIES:
Call your local Poison Control Center

PRODUCT APPEARANCE AND ODOR
Clear, water-white liquid, essentially odorless

CARCINOGENICITY: No evidence of carcinogenic activity.

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS
White Mineral Oil

APPROXIMATE CONCENTRATION
100%

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
0	1	0	Recommended by Manufacturer

Note: This product is an NF or USP Grade White Mineral Oil. It is not expected to present any unusual hazards, in proper use. It is used for a variety of applications such as food grade lubricants and in production of cosmetics and pharmaceuticals. It meets the requirements of the US FDA as per 21 CFR 172.828 and 21 CFR 178.3620(a).

EXPOSURE LIMIT

Component: Mineral Oil Dust	VALUE	BASIS
Type: TWA (mist), ACGIH	5.0 mg/m ³	Recommended by Manufacturer
Type: STEL (mist) ACGIH	10 mg/m ³	Recommended by Manufacturer

Note: If used in a way that generates a "mist" observe the limits for Mineral Oil Mist.

C. EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

No emergency care anticipated. Flush eyes thoroughly for several minutes. Obtain medical attention if discomfort persists.

SKIN CONTACT

No emergency care anticipated. In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water. Wash clothing before re-use. Obtain medical attention if irritation persists.

INHALATION

If overcome by concentrated vapor, remove from exposure into fresh air and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen.

INGESTION

If ingested DO NOT induce vomiting; treat symptomatically. Not expected to be toxic by ingestion.

D. FIRE AND EXPLOSION HAZARD INFORMATION**FLASH POINT (MINIMUM)**

> 120 deg C (248 deg F)

Method: Cleveland Open Cup ASTM D 92

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**HAZARD CLASSIFICATION**

Health	Flammability	Reactivity	BASIS
0	1	0	Recommended by Manufacturer

HANDLING PRECAUTIONS

Keep product away from heat, sparks, pilot lights, static electricity, and open flame.

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES

Treat as an oil fire. Suitable for small fires: CO₂; dry powder; foam. Suitable for large fires: alcohol-type foam or universal-type foams; water fog. Unsuitable: Oil will float on water and can spread any fire.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Guide on Hazardous Materials," Ninth Edition (1987):

Use dry chemical, foam, or carbon dioxide. Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect persons attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing gases, vapors, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

NOTE: The inclusion of the phrase "water may be ineffective" is to indicate that although water may be used to cool and protect exposed material, water may not extinguish the fire unless used under favorable conditions by experienced fire fighters trained in fighting all types of combustible liquid fires. Remember, oil will float on water and can spread any fire.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

Fumes, smoke, soot, and oxides of carbon.

"EMPTY" CONTAINER WARNING

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. DO NOT attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations. Electrically bond and ground all containers and equipment before transfer or use of material.

E NATURE OF HAZARD AND TOXICITY INFORMATION (ACUTE EFFECTS)

Harmful effects are not expected from short periods of contact. Prolonged or repeated contact may lead to skin irritation by dermatitis or oil acne.

Product contacting the eyes shows no evidence of harmful effects from available information.

Ingestion is unlikely to have any toxic effects but the product may act as an intestinal lubricant and result in diarrhea and frequent loose stools.

If vomiting occurs, aspiration may cause delayed pulmonary edema and chemical pneumonia.

Inhalation – No harmful effects expected from static vapor at ambient temperature.

Inhalation of spray or mist may be harmful.

This product is judged to have an acute toxicity (LD50 -rat) greater than 5,000 mg/kg of body weight

Test results are based on analogy with a similar material.

F. PHYSICAL DATA

BOILING POINT

> 230 deg C (446 deg F) at STP unless specified below.

SPECIFIC GRAVITY (H₂O=1)

@ 25 deg C (77 deg F): < 1

VISCOSITY

105/115 Saybolt universal seconds(SUS) @ 100 deg F

SOLUBILITY IN WATER

Insoluble

SOLUBILITY IN ORGANIC SOLVENTS

Soluble

VAPOR PRESSURE

< 0.008 hPa (0.01 mm Hg) @ 68° F (20° C)

PARTITIONING COEFFICIENT

Log POW: > 6

This product is soluble in oil.

PERCENT VOLATILES

Nil

KINEMATIC VISCOSITY

< 30 mm²/s @ 40 deg C

FLASH POINT

> 120 deg C (248 deg F) Cleveland Open Cup Method
ASTM D 92

G. REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidizing agents; sunlight or ultraviolet light; heat or high temperature. Oxides of carbon and soot may be generated as products of combustion.

H. SPILL OR LEAK PROCEDURES

(ENVIRONMENTAL INFORMATION)

Meets requirements of FDA procedure 178.3620(b) and 178.3910 (a) (4)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable government regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

I. PROTECTION AND PRECAUTIONS

VENTILATION

Local ventilation is needed in the presence of airborne mists.

RESPIRATORY PROTECTION

If vapor and/or mist is generated by heating, spraying, etc., wear an organic vapor respirator with a mist filter. No special respiratory protection is normally required.

PROTECTIVE GLOVES

Use oil-resistant gloves to avoid prolonged or repeated skin contact.

EYE PROTECTION

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT

Use chemical-resistant apron or other impervious clothing, when indicated, to avoid contaminating regular clothing, which could result in, prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS

Keep containers and storage containers closed when not in use. Do not store near heat, sparks, flames, or strong oxidants. To prevent fire or explosion risk from static accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

PERSONAL HYGIENE

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing, launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals and at end of work period. Product is readily removed from skin by waterless hand cleansers followed by washing thoroughly with soap and water.

J. TRANSPORTATION INFORMATION

TRANSPORTATION INCIDENT INFORMATION

For information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook DOT P 5800.3. This product contains no substances above EPA reporting requirements specified by SARA title III, Section 313; Section 302 and Section 311/312.

NATIONAL MOTORFREIGHT CLASSIFICATION: 155250

FREIGHT DESCRIPTION ROAD: 65 Petroleum Oil, N.O.I.B.N.

U.S. D.O.T. CLASSIFICATION: This product is not regulated by D.O.T.

IMDG CLASSIFICATION: This product is not regulated by IMDG

ICAO CLASSIFICATION: This product is not regulated by ICAO

SPECIAL LABELING INFORMATION

EPA HAZARD CATEGORIES (SARA 311, 312) : NONE

SARA TITLE III: NONE

K NOTE

The information and recommendations contained herein are, to the best of Le-Jo's knowledge and belief, accurate and reliable as of the date issued. Le-Jo does not warrant or guarantee their accuracy or reliability, and Le-Jo shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendation are offered for the user's consideration and examination and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Le-Jo Enterprises, Inc. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of the rating systems, together with Le-Jo's interpretation of the available data.

FOR ADDITIONAL INFORMATION ON HEALTH EFFECTS & OTHER PRODUCT INFO., CONTACT:

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