



LINCOLN

Mercury

Motorcraft

Rotunda

Material Safety Data Sheet

FIR No.: 037494
Version Number: CA-EN-8

Level: 1
Release Date: 2010-05-01

1. Product and Company Identification

Product Name: Dye-Lite® Leak Detection Dye for Diesel Engine Oil
Product Code: See Attachment
Application: Diesel Engine Oil Leak Tracer Dye
Supplier: Ford Motor Company of Canada
 Oakville, Ontario L6J 5E4
 1-800-392-3673

Emergency Telephone: Poison Control Center: 1-800-959-3673
 CHEMTREC: U.S. and Canada: 1-800-424-9300
 CHEMTREC: International: 1-703-527-3887

2. Composition/Information on Ingredients

This chemical product is a preparation.

| Chemical Name | CAS Number | Percent Concentration | Hazard Classification |
|--|------------|-----------------------|-----------------------|
| PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC | 64742-52-5 | 60-100 | HAZCOM RSMS_P_SOM |
| WHITE MINERAL OIL | 8042-47-5 | 10-30 | HAZCOM |

3. Hazards Identification

Health: This product may cause irritation to the eyes, respiratory system, and skin.
 Exposure to oil mist/fume/vapor may cause respiratory tract irritation.
 If ingested, this product may cause gastrointestinal irritation.
 Ingestion of this product may cause nausea, vomiting and diarrhea.
 Aspiration hazard if swallowed; can enter lungs and cause damage.

Physical and Chemical Hazards: This product is combustible at high temperatures.

4. First-Aid Measures

Inhalation: If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air.
 If irritation persists, get medical attention.

Skin Contact: Wash skin with soap and water.
 If irritation persists, get medical attention.

Eye Contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical attention.
 If irritation persists, get medical attention.

Ingestion: If the material is swallowed, get immediate medical attention or advice – Do not induce vomiting.



Material Safety Data Sheet

FIR No.: 037494
Version Number: CA-EN-8

Level: 1
Release Date: 2010-05-01

Notes to a Physician:

If the affected person is not breathing, apply artificial respiration. This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

5. Fire-Fighting Measures

Extinguishing Media:

EXTINGUISHER INFORMATION: Dry chemical, foam, carbon dioxide, water fog.

Specific Hazards:

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.
Vapors may form explosive mixture with air.

Protection of Firefighters:

Fire fighters should be equipped with NIOSH-approved, self-contained breathing apparatus (SCBA) and full protective clothing.

6. Accidental Release Measures

Personal Precautions:

Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material.
Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Environmental Precautions:

Do not allow the spilled product to enter public drainage system or open water courses.

Methods for Cleaning Up:

Absorb the spilled material with an inert absorbent (nonflammable) material.

7. Handling and Storage

Handling:

Technical Measures:

Keep this product from heat, sparks, or open flame.

Precautions and Advice for Safe Handling:

Avoid breathing vapor or mist.
Use this product with adequate ventilation.

Storage: Technical Measures:

Do not reuse the empty container.

Storage Conditions:

Avoid prolonged exposure of the container to direct sunlight.
Store this product in a cool, dry, well-ventilated place.



Material Safety Data Sheet

FIR No.: 037494
Version Number: CA-EN-8

Level: 1
Release Date: 2010-05-01

8. Exposure Controls/Personal Protection

Engineering Measures:

General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Local ventilation is needed in the presence of airborne mists.

Control Parameters:

If oil mist is generated, observe the OSHA exposure limit of 5 mg/m³. Ford Motor Company recommends an exposure limit of 1.0 mg/m³.

Personal Protective Equipment:

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

Hand Protection:

Use impervious gloves.

Eye Protection:

Wear chemical goggles.
Eye wash fountains are required.

Skin and Body Protection:

Light protective clothing is recommended.

Hygiene Measures:

Wash thoroughly after handling.



Material Safety Data Sheet

FIR No.: 037494
Version Number: CA-EN-8

Level: 1
Release Date: 2010-05-01

9. Physical and Chemical Properties

| | |
|---|------------------------|
| Specific Gravity: | 0.9 H ₂ O=1 |
| Physical State: | LIQUID |
| Odor: | MILD BLAND PETROLEUM |
| Color: | DARK BROWN |
| pH: | N.A.P |
| Temperature Range During which Changes in Physical State Occur: | |
| Boiling Point: | >+100 °C |
| Flash Point: | >93.3 °C SETAFLASH |
| Auto-ignition Temperature: | ND |
| Explosion Properties: | |
| UEL: | ND |
| LEL: | ND |
| Vapor Pressure: | <0.01@20C mmHg |
| Vapor Density: | >5 (AIR=1) |
| Solubility: | INSOLUBLE IN WATER |
| Viscosity: | 20 cSt 40°C |
| Evaporation Rate: | <0.01 (BuAc = 1) |

10. Stability and Reactivity

| | |
|------------------------------------|---|
| Stability: | This is a stable material. Hazardous polymerization will not occur. |
| Conditions and Materials to Avoid: | This product may react with oxidizing agents. This product may react with reducing agents. |
| Hazardous Decomposition Products: | Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons. Decomposition of this product may yield oxides of nitrogen upon decomposition. |

11. Toxicological Information

| | |
|-------------------------------|--|
| Skin Contact: | Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. |
| Chronic (Long Term) Toxicity: | Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. |



Material Safety Data Sheet

FIR No.: 037494
Version Number: CA-EN-8

Level: 1
Release Date: 2010-05-01

12. Ecological Information

No specific aquatic data available for this product.

13. Disposal Considerations

Waste from Residues:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

Contaminated Packaging:

No consideration given when disposed of according to local, state, and Federal regulations.



LINCOLN



Mercury

Motorcraft

Rotunda

Material Safety Data Sheet

FIR No.: 037494
Version Number: CA-EN-8

Level: 1
Release Date: 2010-05-01

14. Transport Information

U.S. Department of Transportation (DOT) 49 - CFR 172.101

This product is not regulated as a dangerous good.

Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II

This product is not regulated as a dangerous good.

Secretary of Communication and Transportation (SCT) - NOM-002-SCT2/1994 (Mexico)

This product is not regulated as a dangerous good.

International and Domestic Air Transportation - ICAO & IATA Section 4.2

This product is not regulated as a dangerous good.

International Water Transportation - IMDG Code Amendment 31-02

This product is not regulated as a dangerous good.

15. Regulatory Information

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

CLASS D DIVISION 2 SUBDIVISION B: Poisonous/Infectious Material Causing Other Toxic Effects - Toxic Material
Material contains a chemical which is a Ford Motor Company Material of Concern. Use and release of this material should be minimized to the greatest extent possible.

16. Other Information

Key/Legend: N.AP = Not applicable; N.AV = Not available; ND = Not determined or No data; TLV = Threshold limit value; TWA = Time-weighted average; STEL = Short-term exposure limit; C = Ceiling limit

The following sections contain revisions OR 2
NEW statements. 15
16

Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacture's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA.



Material Safety Data Sheet

FIR No.: 037494
Version Number: CA-EN-8

Level: 1
Release Date: 2010-05-01

Disclaimer:

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



Material Safety Data Sheet

FIR No.: 037494
Version Number: CA-EN-8

Level: 1
Release Date: 2010-05-01

Attachment

| Product Code | Container Size | Part of Kit | Kit Product Code |
|--------------|--------------------------------|-------------|------------------|
| 164-R3708 | 24 - 1 fl oz (29.5 mL) bottles | | |