

SAFETY DATA SHEET –COMPLETE ENGINE CLEAN

1. IDENTIFICATION

1.1. PRODUCT IDENTIFIER USED ON LABEL:

1.1.1. COMPLETE ENGINE CLEAN

1.2. OTHER MEANS OF IDENTIFICATION: 1.2.1. ENGINE CLEAN

1.3. RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE; 1.3.1. PETROLEUM LUBRICATING OIL

1.4. NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CHEMICAL MANUFACTURE R, IMPORTER, OR OTHER RESPONSIBLE PARTY: 1.4.1.

Life Automotive

500 Industrial Park Drive
Selmer, TN 38375-3276
United States of America

Product Information

MSDS Requests: (800) 264-6457 or +17316454972
Technical Information: (800) 264-6457 or +17316454972
General Information: vswedley@spectrumcorporation.com

SAFETY DATA SHEET – COMPLETE ENGINE FLUSH

2. HAZARD(S) IDENTIFICATION

2.1. CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) of §1910.1200:

2.1.1. Acute Inhalation Category 4

2.2. Signal Word:

2.2.1. Warning

2.3. Symbol:

2.4. Hazard Statements:

2.4.1. Harmful if Inhaled

2.5. Precautionary Statements:

2.5.1. Prevention:

2.5.1.1. Avoid breathing mists or spray.

2.5.1.2. Use only outdoors or in a well-ventilated area.

2.5.2. Response:

2.5.2.1. If inhaled: Remove person to fresh air and keep comfortable for breathing.

2.5.2.2. Get medical advice if you feel unwell.

3. Composition/ information on ingredients

3.1. The chemical name and concentration (exact percentage) or concentration ranges of all ingredients which are classified as health hazards in accordance with paragraph (d) of §1910.1200 3.1.1.

COMPONENTS	CAS Number	EU Number	Concentration (%)	Hazard Statements (see Section 16)
Hydrotreated distillate, heavy paraffinic	64742-54-7	265-157-1	75-99	H332
Monobutyl ether EB	111-76-2	203-905-0	<10	H302, H312, H315, H319, H332

4. FIRST AID MEASURES

4.1.

Skin:

Wash skin with soap and warm water. Wash clothing before re-use. If skin irritation or rash occurs: Get medical advice/attention.

Eye:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

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5. FIRE FIGHTING MEASURES

5.1. **Flash Point:** 203°F (95°C)

5.2. **Protective Equipment/Fire Fighting Instructions:**

5.2.1. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

5.3. **Extinguishing Media:**

5.3.1. Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

5.4. **Special Firefighting Procedures:**

5.4.1. Cool exposed containers with water spray.

5.5. **Unusual Fire and Explosion Hazards:**

5.5.1. Pressure increase in over heated closed containers. Cool containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1. **Spill Procedures:**

6.1.1. Remove ignition sources. Recover Liquid. Add absorbent to spill area. Ventilate confined spaces. Advise authorities if product enters sewers, etc.

6.2. **Waste Disposal:**

6.2.1. Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site

6.3. **Precautionary Measures:**

6.3.1. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling.

6.3.2. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

7. HANDLING AND STORAGE

7.1. **Handling** 7.1.1. Empty containers retain product residue (solid, 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, static electricity, or other sources of ignition. They may explode and cause injury or death.

Empty containers should be completely drained, properly closed, and promptly returned to a drum re-conditioner or disposed of properly.

7.2. **Storage**

7.2.1. Keep container closed when not in use. Do not store with strong oxidizing agents. Do not store at elevated temperatures.

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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Component Exposure Limits:

8.1.1. COMPLETE ENGINE CLEAN 5mg/m³ (oil mist) ACGIH TLV OSHA PEL

COMPONENTS	ACGIH TLV	OSHA PEL
Hydrotreated distillate, heavy paraffinic	5mg/m ³ (oil mist) TWA	5mg/m ³ (oil mist) TWA
Monobutyl ether EB	20 PPM TWA	240mg/m ³ (oil mist) TWA

8.2. Engineering Controls:

8.2.1. Ventilate as needed to comply with exposure limit

8.3. Eye Protection:

8.3.1. Use goggles/face shield to avoid eye contact

8.4. Glove Protection:

8.4.1. Use impervious gloves to avoid repeated/prolonged skin contact.

8.5. Work/Hygienic Practices:

8.5.1. If clothing becomes contaminated, change to fresh clean clothing.
Do not wear until thoroughly laundered.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance/Odor:	Amber colored liquid with mild hydrocarbon odor.	9.2. Odor Threshold:	No data available
9.3. pH:	No data available	9.4. Boiling Point:	Wide range
9.5. Melting Point:	No data available	9.6. Solubility (H ₂ O):	Negligible
9.7. Specific Gravity:	0.8649 @ 15.6°C	9.8. Density:	7.2 lbs/gal
9.9. Octanol/H ₂ O Coeff.:	No data available	9.10. Evaporation Rate (BUAC=1):	<1

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9.11. Molecular Weight:	No data available	9.12. Decomposition Temp:	No data available
9.13. Auto Ignition:	No data available	9.14. Lower Flammability Limit:	No data available
9.15. Flash Point:	203°F (95°C)	9.16. Upper Flammability Limit:	No data available
9.17. Vapor Density (Air=1):	>1	9.18. Vapor Pressure:	<1mmHg @ 20°C
9.19. VOC:	Nil	9.20. Flammability Class:	Not classified
9.21. Viscosity @ 40°C	21.2cSt (21.2 mm ² /s)	9.22. Viscosity @ 100°C	4cSt (4 mm ² /s)

10. STABILITY AND REACTIVITY

10.1. Reactivity:

10.1.1. Material does not pose a significant reactivity hazard.

10.2. Chemical Stability:

10.2.1. Stable

10.3. Incompatibility/Conditions to avoid:

10.3.1. Avoid strong oxidants

10.4. Possibility of Hazardous Reactions:

10.4.1. Will not undergo hazardous polymerization.

10.5. Hazardous Decomposition Products:

10.5.1. Partial burning produces fumes, smoke and carbon monoxide

11. TOXICOLOGY INFORMATION

11.1. Likely Routes of Exposure:

11.1.1. Ingestion, Inhalation, Eye contact, Skin contact.

11.2. Acute Effects: 11.2.1. Inhalation: Harmful if inhaled.

11.2.2. Eye Contact: Expected to be low eye irritation.

11.2.3. Skin Contact: Expected to be low skin irritation.

11.2.4. Ingestion: Expected to be low ingestion hazard.

11.3. Component Data/ Analysis

COMPONENTS	Oral (LD50) (Rat)	Inhalation (LC50) (Rat)	Dermal (LD50) (Rabbit)
Hydrotreated distillate, heavy paraffinic	>5000 mg/kg	2.18 mg/l (4hr)	>2000 mg/kg
Monobutyl ether EB	560 mg/kg	2.21 mg/l (4hr)	1000<and<2000 mg/kg

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11.4. Sensitization:

11.4.1. None known.

11.5. Carcinogenicity:

11.5.1. None greater than 0.1%.

11.6. Mutagenicity:

11.6.1. None known.

11.7. Reproductive Toxicity:

11.7.1. None known.

11.8. Teratogenicity:

11.8.1. None known.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity 12.1.1. An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

12.2. Environmental Fate 12.2.1. Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.

DISPOSAL CONSIDERATIONS

13.1. Waste Disposal:

13.1.1. Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site.

TRANSPORTATION INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

14.1. ROAD AND RAIL

14.1.1. DOT: NOT REGULATED

14.2. VESSEL

14.2.1. IMDG: NOT REGULATED

14.3. AIR

14.3.1. IATA: NOT REGULATED

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15. REGULATORY INFORMATION

15.1. TSCA Inventory

15.1.1. This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

15.2. SARA 302/304 Emergency Planning and Notification

15.2.1. No components were identified.

15.3. SARA 311/312 Hazard Identification

15.3.1. Acute (Immediate) Health Hazard

15.4. SARA 313 Toxic Chemical Notification and Release Reporting

15.4.1. : Ethylene Glycol Monobutyl Ether

15.5. CERCLA

15.5.1. No components were identified.

15.6. **Clean Water Act (CWA)** 15.6.1. This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

15.7. **California Proposition 65:** 15.7.1. The product does not contain chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.

15.8. **New Jersey Right-to-Know Label** 15.8.1. Petroleum Oil

15.8.2. Ethylene Glycol Monobutyl Ether

16. OTHER INFORMATION

16.1

HAZARD RANKINGS

HMIS

HEALTH FIRE HAZARD	2
FIRE HAZARD	2
PHYSICAL HAZARD	0
Personal Protection	B

NFPA

HEALTH HAZARD	2
FIRE HAZARD	2
INSTABILITY/REACTIVITY	0

Components Hazard Statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes Serious Eye Irritation
H332	Harmful if inhaled

16.2. **Date of preparation:** 10/1/2014

16.3. MANUFACTURER DISCLAIMER:

16.3.1. *The data presented herein is based upon tests and information, which we believe to be reliable. However, users should make their own investigations to determine the suitability of the information for their particular purpose.*