



Revised: 11/09/2010

1. Chemical Product and Contact Information

Product Name: Calibration Sample Part Number:
(Hydrocarbon)for Sulfur 501-458

LECO Corporation

3000 Lakeview

St. Joseph, Michigan 49085

Information: 269-983-5531

Chemtrec: 800-424-9300 (Chemtrec Int'l: 703-527-3887)

2. Composition/Information on Ingredients

This a complex mixture(CAS #68476-30-2) of paraffins, cycloparaffins, olefins, and aromatic hydrocarbons having hydrocarbon chain lengths predominantly in the range of C11 through C20. Contains minor amounts of sulfur(<0.05%). May contain a trace amount of benzene(<0.01%). Can contain small amounts of other additives(>0.15%) which are not considered hazardous at the concentrations used.

<u>Component</u>	<u>% Range</u>	<u>CAS Number</u>	<u>Exposure Limits</u>
Saturated Hydrocarbons	54-85	Mixture	None established.
Aromatic Hydrocarbons	15-45	Mixture	None established.
Unsaturated Hydrocarbons	1-6	Mixture	None established.

3. Hazard Identification**EMERGENCY OVERVIEW**

Combustible liquid. If swallowed, may cause lung damage or death. Clear, light amber liquid.

Potential Health Effects

EYES: Produces little or no irritation on direct contact with eye.

SKIN: Prolonged or repeated liquid contact can cause defatting and drying of the skin which may produce severe irritation or dermatitis.

INHALATION: High vapor concentrations may produce headache, vertigo, and anesthetic stupor.

INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs may cause chemical pneumonia which may be fatal.

MEDICAL CONDITIONS AGGRAVATED: Preexisting skin conditions and respiratory disorders may be aggravated by exposure to components of fuel oils.

CHRONIC OVEREXPOSURE: Contains petroleum distillates.

ACUTE OVEREXPOSURE: See above.

CARCINOGENICITY: This product contains fuel oil #2. Materials similar to fuel oil #2 have been shown to produce skin cancer in laboratory animals following repeated skin exposure without washing or removal. There is inadequate evidence for the carcinogenicity of fuel oil in humans.

P/N: 501-458

4. First Aid Measures

EYES: Flush with large amounts of water for at least 15 minutes; get medical attention.

SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing.

Launder contaminated clothing before reuse.

INHALATION: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

INGESTION: Do not induce vomiting. Keep person warm, quiet, and get medical attention.

Aspiration of material into lungs due to vomiting can cause chemical pneumonitis which can be fatal.

5. Fire Fighting Measures

FLAMMABLE PROPERTIES: Non-flammable.

Flash Point: 130-190°F. (54-87° C.)

Flammable Limits (% by Volume in Air):

Lower: 0.7.

Upper: 5.0.

AUTO-IGNITION TEMPERATURE: 637°F..

EXTINGUISHING MEDIA: Regular foam, carbon dioxide or dry chemical.

FIREFIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires. Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially if sprayed into containers of hot, burning liquid.

6. Accidental Release Measures

SMALL SPILLS:

Eliminate all sources of ignition such as flames (including pilot lights) and electrical sparks.

Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material and transfer to hood.

LARGE SPILLS:

Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

7. Handling and Storage

HANDLING: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed. Keep away from heat and open flame. Avoid contact with eyes and prolonged or repeated contact with skin. Minimize exposure through good hygienic practices. Do not transfer to unlabeled container. Do not use cutting or welding torch on this container (even empty). Never siphon this product by mouth.

STORAGE: Keep container closed. Store only with adequate ventilation.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation when spraying or using at elevated temperatures. Use equipment that is explosion proof.

RESPIRATORY PROTECTION: Whenever excessive vapors are generated, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering or other administrative controls should be implemented to reduce exposure.

SKIN AND HAND PROTECTION: Wear resistant gloves such as neoprene, nitrile rubber.

EYE AND FACE PROTECTION: Chemical splash goggles or safety glassed with side shields.

OTHER PROTECTIVE EQUIPMENT: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

9. Physical and Chemical Properties

APPEARANCE: Clear, light amber liquid. **pH:** No data available.

BOILING POINT: 400-640°F.

VAPOR PRESSURE (mm): 1-10 mm Hg @ 100° F.

VAPOR DENSITY (air = 1): 4-5

SOLUBILITY IN WATER: Negligible.

SPECIFIC GRAVITY: 0.876 @ 60° F. (15.56° C.)

ODOR: Slight hydrocarbon.

PERCENT VOLATILES: No data available

EVAPORATION RATE (Ether = 1): No data available.

DENSITY: 6.76 lbs/gallon.

AVERAGE MOLECULAR WEIGHT: 180.

10. Stability and Reactivity

CHEMICAL STABILITY: Stable at 70°F, 760mm pressure.

INCOMPATIBILITY: Strong oxidizers such as nitrates, perchlorates, chlorine, fluorine..

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, aldehydes, aromatic, other hydrocarbons.

HAZARDOUS POLYMERIZATION: None.

11. Toxicological Information

Lifetime skin painting studies in animals with similar distillate fuels, have produced weak to moderate carcinogenic activity following prolonged and repeated exposure. Tumorigenic response is likely related to chronic irritation and not to dose. Repeated dermal application has produced severe irritation and systemic toxicity in subacute toxicity studies. The exact relationship between these results and human health is not known.

12. Ecological Information

Liquid can be toxic to aquatic life and cause fouling of the shoreline at high concentrations. If product is released to soil or water, it is expected to biodegrade under both aerobic and anaerobic conditions..

13. Disposal Consideration

SMALL SPILL: Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Dispose of remaining material in accordance with applicable regulations.
LARGE SPILL: Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

14. Transportation Information

<u>U.S.A. DOT:</u>	<u>International</u>	
Proper shipping name:	Fuel oil, No. 2	Petroleum Distillate, N.O.S.
Classification:	3	3
Identification Number:	NA 1993	UN1268
Packing group:	PG III	PG III
IMDG page 51.		

15. Regulatory Information

U.S. FEDERAL REGULATIONS:
TSCA STATUS: On Toxic Substance Control Inventory.
CERCLA REPORTABLE QUANTITY: None.
SARA TITLE III:
 Section 302 Extremely Hazardous Substances: None.
 Section 304 Emergency Release Notification: None.
 Section 311/312 Hazardous Categories: Acute, Fire.
 Section 313 Toxic Chemicals: None.
RCRA STATUS: Not regulated.
CANADIAN REGULATIONS:
WHMIS: B3, D2B

16. Other Information

Hazard Index: (0 - 4, 4 = Extreme)
Health: 1 Fire: 2 Reactivity: 1
 Prepared By:
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