Material Safety Data Sheet

Lantern Fuel (Coleman)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Calumet Lubricants Company
2785 Waterfront Pkwy. Suite 200
Indianapolis, IN 46214

COMPANY CONTACT: Jennifer Hall
TELEPHONE NUMBER: (317)949-7421

EMERGENCY TELEPHONE NUMBERS
Darwin Foster - Calumet Lubricants (317)832-4236 8am - 4pm, M-F.
Chemtrec (1-800)424-9300 After Business Hrs.

PRODUCT NAME: Lantern Fuel (Coleman)
PRODUCT CODE: 0170-05
CHEMICAL NAME: Light Hydrocracked Distillate
CAS NUMBER: 68410-07-9
CHEMICAL FAMILY: Petroleum Hydrocarbon Naphtha
CHEMICAL FORMULA: C8-C9

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>EXPLOSION LIMITS</th>
<th>CONCENTRATION PERCENT BY VOLUME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Hydrocracked Distillate</td>
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<tr>
<td>CAS NUMBER: 68410-07-9</td>
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<tr>
<td>Petroleum Distillate (Naphtha)</td>
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<td>100.0</td>
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</tbody>
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3. HAZARDS IDENTIFICATION

WARNING: Flammable Liquid and Vapor. Harmful if inhaled and may cause:
- delayed lung injury; can cause nervous system depression, aspiration
- hazard if swallowed - can enter lungs and cause damage. Keep away from
- heat, sparks, and flame. Avoid breathing vapor. Use ventilation
- adequate to keep vapor below recommended exposure limits. Avoid contact
- with eyes, skin and clothing. Wash thoroughly after handling.

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY
SKIN.

EYES
Tests on similar materials suggest acute irritation.

SKIN
Tests on similar materials indicate acute irritation upon short-term exposure and chronic dermatitis on prolonged contact.

INGESTION
Acute aspiration hazard. Tests on similar materials indicate possibility of the following symptoms: headache, nausea, drowsiness, fatigue, pneumonia, pulmonary edema, central nervous system depression, convulsions, and loss of consciousness.

INHALATION
Acute Irritation. Tests on similar materials indicate the possibility of the following symptoms: headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.

CHRONIC (CANCER INFORMATION)
Prolonged and/or repeated contact with this material may produce skin and eye irritation.

Carcinogen listed by: National Toxicology Program (NTP)

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3. HAZARDS IDENTIFICATION - Continued

CHRONIC (CANCER) INFORMATION - Continued

<table>
<thead>
<tr>
<th>IARC R. C. (60)</th>
<th>OSHA (RO)</th>
<th>ACGIH (RO)</th>
</tr>
</thead>
</table>

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Personnel with pre-existing skin disorders should avoid contact with this product.

4. FIRST AID MEASURES

EYES
Flush eyes immediately with water a minimum of 15 minutes, occasionally lifting lower and upper lids. Get medical attention promptly.

SKIN
Wash skin thoroughly with soap and water. Immediately remove contaminated clothing and launder; before reuse. If irritation or rash develops, obtain medical assistance.

INGESTION
Call a physician immediately. Do not induce vomiting except at the instruction of a physician. Never give anything by mouth to an unconscious person.

INHALATION
Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT (°C) < -18°C Tag Closed Cup
AUTOIGNITION: n/a, °F n/a, °C
FLAMMABILITY CLASS: IB
LOWER EXPLOSION LIMIT (%): 11/10% 1 (estimated)
UPPER EXPLOSION LIMIT (%): 11/10% 4 (estimated)

FIRE AND EXPLOSION HAZARDS
Can form flammable mixtures with air and flash at room temperature. Explosion hazard in fire situation. Vapor heavier than air and may travel considerable distance to a source of ignition and flash back.

EXTINGUISHING MEDIA
Dry chemical, carbon dioxide, and foam. CAUTION: Water stream may spread fire.

FIRE FIGHTING INSTRUCTIONS
Use water spray only to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). If leak or spill has not ignited, use water spray to disperse the vapors.

Products of combustion include fumes, smoke and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Notify emergency response personnel. Evacuate area and remove ignition sources. Build dike to contain spill. Remove free liquid. Shut off ignition sources. Contain spill and keep from entering sewers or sewers. Use personal protective equipment. Advise DEA; state agency if required. Absorb...
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6. ACCIDENTAL RELEASE MEASURES - Continued

on inert material. Shovel, sweep or vacuum spill and place in closed container for disposal.

7. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS
Store as Class IIIB flammable liquid. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors. Wash thoroughly after handling. Do not store with strong oxidizers. Lab samples should be stored and handled in a lab hood. Use explosion proof ventilation equipment.

STORAGE PRECAUTIONS
Empty containers retain product residue (liquid and vapor) and can be dangerous. Do not pressureize.

Storage Temperature: ambient or less
Storage Pressure: atmospheric

MORE/STORAGE PRACTICES
Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS
Use adequate ventilation to keep oil mists of this material below applicable standard(s). See Section on occupational exposure limits.

RESPIRATORY PROTECTION
Up to 500 ppm hexane / 400 ppm naphtha, half mask organic vapor respirator. Up to 3000 ppm hexane / 20,000 ppm naphtha, full face organic vapor respirator. Greater than 2500 ppm hexane / 25,000 ppm naphtha, fire fighting, or unknown concentration, self-contained breathing apparatus with positive pressure.

SKIN PROTECTION
Avoid prolonged and/or repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are neoprene, nitrile, viton.

WATER/GENERAL PROTECTION
If there is a likelihood of splashing, an oil resistant clothing should be worn. Never wear oil-soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard).

Maintain local or dilution ventilation to keep air concentration below 50 ppm hexane / 400 ppm naphtha. Loading, unloading, tank gauging, etc., remain unattended. Request assistance of safety and industrial hygiene personnel to determine air concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Clear liquid.

ODOR
Petroleum Naphtha.

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9. PHYSICAL AND CHEMICAL PROPERTIES - Continued

GOOD THRESHOLD
N.D.

BASIC PHYSICAL PROPERTIES
PHYSICAL STATE: Liquid
BOILING POINT: IBP >100°F
MELTING POINT: N/A
VAPORE PRESSURE: 516 mm Hg @ 68°F
VAPORE DENSITY (AIR=1): 3
SPECIFIC GRAVITY: 0.69 Water = 1
PACKING DENSITY: N/A
SOLEIABILITY (SOL): negligible
PERCENT VOLATILES: 150
VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT: 100.0 %
EVAPORATION RATE: n/a
pH: essentially neutral
VISCOUSITY: n/a.

Physical data may vary slightly to meet specifications.

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions

CONDITIONS TO AVOID (STABILITY):
Sources of ignition.

INCOMPATIBLE MATERIALS
Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS
Incompatible combustion may produce fumes, smoke, carbon monoxide and other asphyxiants.

HAZARDOUS POLYMORPHIZATION: will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES

EYE EFFECTS
Irritation on contact.

SKIN EFFECTS
May cause irritation or dermatitis with prolonged and repeated contact.

ACUTE ORAL EFFECTS
Tests on similar materials indicate an order of acute oral toxicity.

ACUTE INHALATION EFFECTS
Acute toxicity expected on inhalation.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE
Dermatitis and Sensitive skin.

This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA. Nevertheless, good industrial hygienic practices are recommended.

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12. ECOCLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to section 9 for information regarding accidental releases and section 15 for regulatory reporting information.

13. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. If "used", RCRA criteria must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service. If permitted incineration may be practical. Recommend recycling.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Petroleum Distillate. n°, Class 3. UN 1268. PG II
HAZARD CLASS: Class 3 Flammable Liquid
DOT IDENTIFICATION NUMBER: UN1268
DOT SHIPPIING LABEL: DOT Hazardous Material

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION
SARA 302 Threshold Planning Quantity: not applicable
SARA 304 Reportable Quantity: not applicable
SARA 313 Categories: Immediate (Acute) Health Effects -- Y
Delayed (Chronic) Health Effects -- Y
Fire Hazard
Sudden Release of Pressure Hazard -- N
Reactivity Hazard -- N

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

EPA Hazard Classification Code: NOT APPLICABLE

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): No chemicals in this product are subject to the reporting requirements of CERCLA Section 101(4)(f). When this product is used in a mixture, or as an ingredient in another product, or in a manufacturing operation, the petroleum exclusion may terminate and an accidental spill may require reporting to the National Response Center.

SARA TITLE III NOTIFICATION AND INFORMATION
SARA TITLE III - HAZARD CLASSES: Chronic Health Hazard
Fire Hazard

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION
The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Cyclohexane
  CAS #: 110-82-7
  Up to 15wt %
- Hexane
  CAS #: 110-54-3
  Up to 25wt %

16. OTHER INFORMATION

NFPA HAZARD RATING - HEALTH: 4 Slight
- PHYSICAL: 4 Extreme
- REACTIVITY: 0 Negligible

PREPARED BY: Jennifer Hall
PHONE: (312) 945-2421
SUPERSEDES MSDS DATED: 06/01/96
REVISED: 03/10/93

revision date: 03/19/93
16. OTHER INFORMATION - Continued

9. Physical Properties
10. SARA Title III
11. Ecological Information
12. Composition

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