Dilmar Oil Company

# Solvent 141

## Material Safety Data

### Section I – Chemical Product and Company Information

Product Name: Dilmar Solvent 141
Product Code: DOC141
Product Use: solvent
Manufacturer: Calumet
Telephone: (800) 922-5823
Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

Preparation Date: 6/2011
Revision Date:

### Section II - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | Weight % | ACGIH TLV | PEL | STEL |
|---|---|---|---|---|---|
| Hydrotreated Light Distillates (petroleum) | 64742-47-8 | 100 % | | | |

### Section III – Hazardous Ingredients/Identity Information

**WARNING:** COMBUSTABLE. LIQUID AND VAPOR
THIS PRODUCT IS A CLEAR, HYDROCARBON LIQUID
IT HAS A SOLVENT PETROLEUM ODOR. THE PRODUCT FLOATS ON WATER.
THE FLASH POINT IS > 100 DEGREES F.
THIS PRODUCT CAN PRODUCE STATIC ELECTRICITY DURING TRANSFER AND STORAGE. EXTRA PRECAUTIONS SHOULD BE TAKEN.
KEEP AWAY FROM HEAT, SPARKS, AND FLAME.
WHEN BURNED THE PRODUCT PRODUCES CARBON MONOXIDE AND OTHER ASPHYXIANTS DURING COMBUSTION.

**Eye Contact:** This product contains materials that can cause acute eye irritation with discomfort, tearing, or blurring of vision. Based on data from similar materials.

**Skin Contact:** Tests on similar materials indicate acute irritation is expected to occur upon short term exposure, chronic dermatitis on prolonged contact.

**Inhalation:** Tests on similar material indicate the possibility of the following symptoms: head ache, and Respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous depression, Convulsions, and loss of consciousness.
CHRONIC (CANCER INFORMATION)
Prolonged and/or repeated contact with this material may produce skin irritation and inflammation
Carcinogen listed by: National Toxicology Program (No)

**Ingestion:** Acute aspiration hazard. Tests on similar materials indicate possibility of the symptoms: head ache, nausea, drowsiness, fatigue, pneumonitis, pulmonary adema, nervous system depression, convulsions, and loss of consciousness.

## Section IV – First Aid Measures

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| **Eye Contact:** | Immediately flush eyes with water for at least 15 minutes or until irritation subsides, occasionally lifting lower and upper lids. Get medical attention promptly. |
| **Skin Contact:** | Wash thoroughly with soap and water. Immediately remove contaminated clothing and launder before reuse. If irritation or rash develops, obtain medical assistance. Immediately remove soaked clothing. |
| **Inhalation:** | Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration. |
| **Ingestion:** | Call physician immediately. Do not induce vomiting except at the instruction of the physician. Never give anything by mouth to an unconscious person. |

## Section V – Fire Fighting Measures

Flammable Properties
Flash Point: >142 Degrees F >61 Degrees C Tag Closed Cup

Autoignation: Not available
Flammability Class: IIIA
Lower Explosive Limit (%): Not Available
Upper Explosive Limit (%): Not Available

Fire and Explosion Hazard
Material is combustible
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 confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure is available). If leak or spill has not ignited, use water spray to disperse the vapors.
Products of combustion include fumes, smoke and carbon monoxide.

## Section VI – Accidental Release Measures

**Spill Procedures (Land):** Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, and heaters). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. If a large spill occurs notify appropriate authorities.

**Spill Procedures (Water):** Remove from surface by skimming or with suitable adsorbents. If a large spill occurs notify appropriate authorities.

**Waste Disposal Method:** All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation regulations may apply for transporting this material when spilled. See Section 14.

CAUTION - If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

## Section VII- Handling And Storage

**Handling:**

DANGER: This product is considered a static-accumulating (non-conductive) flammable or combustible liquid. As a result, it may accumulate a static electric charge that could ignite accumulated vapors. Many non-conductive flammable and combustible liquids form an ignitable vapor-air mixtrue inside storage tanks. Non-conductive flammable or combustible liquids can accumulate static electricity during transfer and storage, even with proper gounding and bonding. Static sparks can readily ignite vapor-air mixtures within storage tanks. Additional precautions, beyond standard grounding and bonding, may be necessary to prevent static discharge and fire/explosion hazards. Additonal measures include, but are not limited to, inerting tank head space with nitrogen, adding anti-static agents, and reducing pump flow velocity during transfer to 1 meter/second or less. Consult NFPA 77, NFPA 69 and API RP 2003 for additional information and preventive measures.

HANDLING AND STORAGE PRECAUTIONS

Store as OSHA Class IIIA combustible 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.

STORAGE PRECAUTIONS

Empty containers retain product residue (liquid and vapor) and can be dangerous.
Storage Temperature: ambient
Storage Pressure: atmospheric

WORK/HYGIENIC 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.

**Section VIII – 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_

EYE/FACE PROTECTION
Safety glasses, splash goggles, or face shield as appropriate. Have suitable ~ye water wash available.

SKIN PROTECTION
I1\void prolonged and/or repeated skin contact If prolonged contact cannot be [avoided, wear protective impervious gloves and clothing. Acceptable materials [fbr gloves are neoprene; nitrile; viton.

OTHER / 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).

Loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygiene personnel to determine air concentrations.

INGREDIENT NAME, CAS #, EXPOSURE LIMITS, PERCENT BY VOLUME

Exposure limits for Stoddard solvent, CAS:8052-41-3, OSHA TWA:500 ppm

**Section IX – Physical And Chemical Properties**

**Product CAS Number** 64742-47-8

APPEARANCE
Clear liquid.
ODOR
Kerosine

ODOR THRESHOLD
N.D.

BASIC PHYSICAL PROPERTIES
PHYSICAL STATE: Liquid
BOILING POINT: IBP >355°F IBP >179°C
MELTING POINT: Not Available.
VAPOR PRESSURE: .9 mmHg @ 68°F
VAPOR DENSITY(air=1): Not Available.
SPECIFIC GRAVITY @ 60°F(water=1): 0.78
MOLECULAR WEIGHT: 163.6
SOLUBILITY (H2O): negligible in water
PERCENT VOLATILES: 100%
VISCOSITY: 1.4 cst @ 104°F

Physical data may vary slightly to meet specifications.

**Section X – Stability And Reactivity**

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| **Stability:** | Material is stable at room temperature and pressure. |
| **Conditions To Avoid:** | Sources of ignition |
| **Incompatibility With Other Materials:** | Strong oxidizers |
| **Decomposition Products:** | Incomplete combustion may produce carbon monoxide and other asphyxiants |
| **Hazardous Polymerization:** | Will not occur. |

**Section XI – Toxicological Information**

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| **Oral Toxicity:** | Tests on similar materials indicate an order of acute oral toxicity. |
| **Dermal Toxicity:** | May cause irritation or dermatitis with prolonged and repeated contact. |
| **Inhalation Toxicity:** | Acute toxicity expected on inhalation. This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Program, by the IARC monographs or by OSHA. Therefore, if the precautions outlined in this bulletin are |

followed to minimize repeated or prolonged skin contact which could cause irritation, these oils should pose no carcinogenic hazard to humans. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. (Nevertheless, good industrial hygienic practices are recommended.

## Section XII – Ecological Information

**Environmental Toxicity:** This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

**Environmental Fate:** If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress in birds and mammals through ingestion.

This product is rapidly biodegradable. Biodegradation is possible within 90 to 120 days in aerobic environments at temperatures above 70F (21C).

## Section XIII – Disposal Considerations

Product as supplied does not meet the characteristics of a hazardous waste as defined in 40 CFR 261.21-24. If mixed with other products, waste mixture must be characterized. DO NOT dispose of this product in drains or storm sewers. DO NOT dispose of this product in a landfill without prior solidification. Waste product should be recycled. Consider waste brokering.

## Section XIV – Transport Information

**U.S. DOT Information Bulk Shipping Description:** Petroleum Distillates, n.o.s., Combustible Liquid, UN1268, PG III

**Non-Bulk Shipping Description:** Does not apply to non-bulk oil shipping.

**Identification Number:** UN1268

**Hazard Classification:** Combustible Liquid.

**Other:** See 49 CFR for additional requirements for descriptions, allowed modes of transport, and packaging. For more information concerning spills during transport, consult latest DOT Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

**Section XV – Regulatory Information**

U.S. FEDERAL REGULATORY INFORMATION
SARA 302 Threshold Planning Quantity: NOT APPLICABLE
SARA 304 Reportable Quantity: NOT APPLICABLE
SARA TITLE III - Section 311/312 Hazard classes:
· Immediate/Acute Health Effects: yes
· Delayed/Chronic Health Effects: no
· Fire Hazard: yes
· Sudden Release of Pressure Hazard: no
· Reactivity Hazard: no

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

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: None

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): No chemicals in this product are subject to the reporting requirements of CERCLA Section 101(14)(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.

CANADIAN REGULATORY INFORMATION
The components of this product are listed on the Canadian (DSL) Domestic Substances List.

EUROPEAN (ECC) REGULATORY INFORMATION
The components of this product are listed on the European Inventory of Existing Commercial Substances. EINECS# 265-149-8

## Section XVI – Other Information

| | NFPA 704 | NPCA-HMIS | KEY |
|---|---|---|---|
| **HEALTH:** | 1 | 1 | 0 = Minimal |
| **FIRE:** | 2 | 2 | 1 = Slight |
| **REACTIVITY:** | 0 | 0 | 2 = Moderate |
| **SPECIFIC HAZARD:** | NONE | N/A | 3 = Serious |
| **PROTECTION INDEX:** | N/A | | 4 = Severe |

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