



| Identity of chemical ingredients                   | CAS number and other unique identifiers | Concentration of ingredients |
|--|---|------------------------------|
| PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY | 64742-70-7                              | 3 - < 5                      |
| Other components below reportable levels           |   | 90 - 100                     |

#### 4. First-aid measures

##### Description of necessary first aid measures

|   |  |
|---|--|
| <b>Inhalation</b>                                   | Move to fresh air. Call a physician if symptoms develop or persist.                      |
| <b>Skin contact</b>                                 | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| <b>Eye contact</b>                                  | Rinse with water. Get medical attention if irritation develops and persists.             |
| <b>Ingestion</b>                                    | Rinse mouth. Get medical attention if symptoms occur.                                    |
| <b>Personal protection for first-aid responders</b> | Not available.   |
| <b>Symptoms caused by exposure</b>                  | Irritation of eyes and mucous membranes. Skin irritation.                                |
| <b>Medical attention and special treatment</b>      | Treat symptomatically.   |

#### 5. Fire-fighting measures

##### Extinguishing media

|   |   |
|---|---|
| <b>Suitable extinguishing media</b>                                   | Water fog. Foam. Dry powder. Carbon dioxide (CO <sub>2</sub> ).   |
| <b>Unsuitable extinguishing media</b>                                 | Do not use water jet as an extinguisher, as this will spread the fire.  |
| <b>Specific hazards arising from the chemical</b>                     | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for fire fighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear suitable protective equipment. |
| <b>Hazchem code</b>   | None.   |
| <b>Specific methods</b>   | Use standard firefighting procedures and consider the hazards of other involved materials.  |

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

|  |  |
|--|--|
| <b>For non-emergency personnel</b>                           | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.  |
| <b>For emergency responders</b>                              | Not available.   |
| <b>Environmental precautions</b>                             | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.   |
| <b>Methods and materials for containment and cleaning up</b> | Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |

## 7. Handling and storage

**Precautions for safe handling** Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls and personal protection

**Control parameters** Follow standard monitoring procedures.

### Occupational exposure limits

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

| Components  | Type | Value   |
|---|------|---------|
| PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7) | TWA  | 5 mg/m3 |

#### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

| Components  | Type | Value   | Form  |
|---|------|---------|-------|
| PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7) | TWA  | 5 mg/m3 | Mist. |

#### US. ACGIH Threshold Limit Values

| Components  | Type | Value   | Form                |
|---|------|---------|---------------------|
| PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7) | TWA  | 5 mg/m3 | Inhalable fraction. |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, for example personal protective equipment (PPE)

**Eye/face protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Not available.

**Odor** Not available.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

|   |   |
|---|---|
| <b>Initial boiling point and boiling range</b>      | > 615.2 °F (> 324 °C)                         |
| <b>Flash point</b>                                  | 410.0 °F (210.0 °C) Pensky-Martens Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                                |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                               |
| <b>Upper/lower flammability or explosive limits</b> |   |
| <b>Flammability limit - lower (%)</b>               | Not available.                                |
| <b>Flammability limit - upper (%)</b>               | Not available.                                |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                |
| <b>Vapor pressure</b>                               | Not available.                                |
| <b>Density</b>                                      | 890.00 kg/m <sup>3</sup>                      |
| <b>Vapor density</b>                                | Not available.                                |
| <b>Relative density</b>                             | Not available.                                |
| <b>Solubility(ies)</b>                              |   |
| <b>Solubility (water)</b>                           | Negligible                                    |
| <b>Solubility (other)</b>                           | Oil   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                                |
| <b>Auto-ignition temperature</b>                    | 500 °F (260 °C) estimated                     |
| <b>Decomposition temperature</b>                    | Not available.                                |
| <b>Viscosity</b>                                    | 100 cSt ASTM D445                             |
| <b>Viscosity temperature</b>                        | 104 °F (40 °C)                                |
| <b>Other physical and chemical parameters</b>       |   |
| <b>Explosive properties</b>                         | Not explosive.                                |
| <b>Oxidizing properties</b>                         | Not oxidizing.                                |
| <b>Specific gravity</b>                             | 0.89  |
| <b>VOC</b>  | 0 %   |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | At thermal decomposition temperatures, carbon monoxide and carbon dioxide.                    |

## 11. Toxicological information

### Information on possible routes of exposure

|                                     |   |
|-------------------------------------|---|
| <b>Inhalation</b>                   | No adverse effects due to inhalation are expected.        |
| <b>Skin contact</b>                 | No adverse effects due to skin contact are expected.      |
| <b>Eye contact</b>                  | Direct contact with eyes may cause temporary irritation.  |
| <b>Ingestion</b>                    | Expected to be a low ingestion hazard.                    |
| <b>Symptoms related to exposure</b> | Irritation of eyes and mucous membranes. Skin irritation. |

| Product                 | Species | Test Results         |
|-------------------------|---------|----------------------|
| Anti-Wear Lubricant 100 |         |                      |
| <b>Acute</b>            |         |                      |
| <b>Oral</b>             |         |                      |
| LD50                    | Rat     | 2003 mg/kg estimated |

\* Estimates for product may be based on additional component data not shown.

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>   | Due to partial or complete lack of data the classification is not possible.                                      |
| <b>Serious eye damage/irritation</b>   | Direct contact with eyes may cause temporary irritation.   |
| <b>Respiratory or skin sensitization</b>   |  |
| <b>Respiratory sensitization</b>   | Not a respiratory sensitizer.  |
| <b>Skin sensitization</b>  | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>  | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>   | Due to lack of data the classification is not possible.  |
| <b>ACGIH Carcinogens</b>   |  |
| MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 64742-70-7)  | A2 Suspected human carcinogen.   |
| PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-70-7) | A4 Not classifiable as a human carcinogen.   |
| <b>Reproductive toxicity</b>   | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Specific target organ toxicity - single exposure</b>  | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b>  | Due to lack of data the classification is not possible.  |
| <b>Aspiration hazard</b>   | Not an aspiration hazard.  |

## 12. Ecological information

|                                      |   |
|--------------------------------------|---|
| <b>Ecotoxicity</b>                   | Toxic to aquatic life. Harmful to aquatic life with long lasting effects.   |
| <b>Persistence and degradability</b> | No data is available on the degradability of this product.  |
| <b>Bioaccumulative potential</b>     | No data available.  |
| <b>Mobility in soil</b>              | This product is miscible in water.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

## 13. Disposal considerations

|                               |  |
|-------------------------------|--|
| <b>Disposal methods</b>       | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Residual waste</b>         | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| <b>Contaminated packaging</b> | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |

## 14. Transport information

|            |                                   |
|------------|-----------------------------------|
| <b>ADG</b> | Not regulated as dangerous goods. |
|------------|-----------------------------------|

**RID**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**15. Regulatory information****Safety, health and environmental regulations**

**National regulations** This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

**International regulations****International Inventories**

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information**

**Issue date** 12-09-2015

**Revision date** 06-28-2018

**Disclaimer** Calumet Branded Products, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available