



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Raylene Extreme Pressure Oil 680  
**Product Code** 301760  
**SDS number** 6869  
**Other means of identification**  
**Synonyms** Old Product Code 71650; For Package Codes 301760XXXXXX  
**Product Code** 301760

### Recommended use of the chemical and restrictions on use

**Recommended use** Lubricant  
**Restrictions on use** Not available.

### Details of manufacturer or importer

Calumet Branded Products, LLC  
GPO Darling Park Towers 2 201 Sussex St. Sydney AU NSW 2000 Australia  
2780 Waterfront Pkwy E. Dr., Suite 200 Indianapolis, IN 46214  
1 317 328 5660  
CHEMTREC: 1800 069 100 (AUS)

## 2. Hazard(s) identification

### Classification of the hazardous chemical

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.

### Label elements, including precautionary statements

**Hazard symbol(s)** None.  
**Signal word** None.  
**Hazard statement(s)** The mixture does not meet the criteria for classification.  
**Precautionary statement(s)**

**Prevention** Observe good industrial hygiene practices.  
**Response** Wash hands after handling.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Other hazards which do not result in classification** None known.

**Supplemental information** 98.1% of the mixture consists of component(s) of unknown acute inhalation toxicity. 98.1% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 98.1% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY	64742-70-7	70 - < 80
Residual Oils (petroleum), Solvent Deasphalted	64741-95-3	10 - < 20
Other components below reportable levels		5 - < 10

## 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.
<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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>For emergency responders</b>	Not available.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and materials for containment and cleaning up** The product is immiscible with water and will spread on the water surface. Prevent entry into waterways, sewer, basements or confined areas.

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.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

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** Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in 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/m <sup>3</sup>

### 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/m <sup>3</sup>	Mist.

### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Residual Oils (petroleum), Solvent Deasphalted (CAS 64741-95-3)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
Residual Oils (petroleum), Solvent Deasphalted (CAS 64741-95-3)	TWA	5 mg/m <sup>3</sup>	Respirable 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.

#### 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.

<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	649.4 °F (343 °C) estimated
<b>Flash point</b>	374.0 °F (190.0 °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>	900.00 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>	Insoluble
<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>	680 cSt
<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>Percent volatile</b>	0.002 % estimated
<b>Specific gravity</b>	0.9
<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>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Nitrogen oxides (NO <sub>x</sub> ).

## 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.
<b>Acute toxicity</b>	Not known.
<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>	Not applicable.
<b>ACGIH Carcinogens</b>	
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7)	A2 Suspected human carcinogen.
Residual Oils (petroleum), Solvent Deasphalted (CAS 64741-95-3)	A4 Not classifiable as a human carcinogen. A2 Suspected human carcinogen. 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

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
Raylene Extreme Pressure Oil 680		
<b>Aquatic</b>		
Crustacea	EC50 Daphnia	13795.1973 mg/l, 48 hours estimated

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### Bioaccumulative potential

**Mobility in soil** The product is immiscible with water and will spread on the water surface.

**Other adverse effects** 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

**Disposal methods** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Residual waste** 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).

**Contaminated packaging** 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

### ADG

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)	No
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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
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

12-19-2016

#### Revision date

09-19-2018

#### 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.

#### Revision information

This document has undergone significant changes and should be reviewed in its entirety.