SECTION 1. IDENTIFICATION

Product name : DECANT OIL

Synonyms : Clarified Oil, Catalytic Cracked Clarified Oil, Carbon Black Feedstock, ER35

Manufacturer or supplier's details
SUNCOR ENERGY INC.
P.O. Box 2844, 150 - 6th Avenue South-West
Calgary Alberta T2P 3E3
Canada

Emergency telephone number
Suncor Energy: +1 403-296-3000;
Canutec Transportation: 1-888-226-8832 (toll-free) or 613-996-6666;
Poison Control Centre: Consult local telephone directory for emergency number(s).

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Viscous liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Brown</td>
</tr>
<tr>
<td>Odour</td>
<td>Aromatic, &quot;Rotten egg&quot; if H2S present, but odour is an unreliable warning, since it may deaden the sense of smell.</td>
</tr>
</tbody>
</table>

GHS Classification

Acute toxicity (Inhalation) : Category 4
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 1B
Carcinogenicity : Category 1B
Reproductive toxicity : Category 1B
Specific target organ toxicity - repeated exposure : Category 1 (Liver, Blood, thymus)
GHS label elements

Hazard pictograms: 

Signal word: Danger

Hazard statements: 
- May cause an allergic skin reaction.
- Harmful if inhaled.
- May cause genetic defects.
- May cause cancer.
- May damage fertility or the unborn child.
- Causes damage to organs (Liver, Blood, thymus) through prolonged or repeated exposure.

Precautionary statements:

Prevention:
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- IF ON SKIN: Wash with plenty of water.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- IF exposed or concerned: Get medical advice/ attention.
- Take off contaminated clothing and wash it before reuse.

Storage:
- Store locked up.

Disposal:
- Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Primary Routes of Entry:
- Inhalation
- Eye contact
- Skin contact
- Ingestion

Aggravated Medical Condition:
- None known.

Other hazards:
- None known.

IARC:
- Group 1: Carcinogenic to humans
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

 Substance / Mixture : Mixture

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>clarified oils (petroleum), catalytic cracked</td>
<td>64741-62-4</td>
<td>97 - 100 %</td>
</tr>
<tr>
<td>sulfur</td>
<td>7704-34-9</td>
<td>&lt; 1 %</td>
</tr>
</tbody>
</table>

All above concentrations are in percent by weight.
Caution: If heated, toxic hydrogen sulphide or solvent vapour may be generated.
May contain Polycyclic Aromatic Hydrocarbons (PAHs).

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
Artificial respiration and/or oxygen may be necessary.
Seek medical advice.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Wash clothing before reuse.
Seek medical advice.

In case of eye contact : Remove contact lenses.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention.

If swallowed : Rinse mouth with water.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Never give anything by mouth to an unconscious person.
Seek medical advice.

Most important symptoms and effects, both acute and delayed : Respiratory, skin and eye irritation; nausea; cancer.
Inhalation may cause central nervous system effects.
Symptoms and signs include headache, dizziness, fatigue,
SAFETY DATA SHEET
DECANT OIL

Version 3.0
Revision Date 2019/07/05
Print Date 2019/07/05

muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Symptoms of hydrogen sulphide overexposure include respiratory tract irritation and shortness of breath.
Exposure to very high levels of hydrogen sulphide (> 500 ppm) will result in unconsciousness and death.
Contact with hot product will cause thermal burns.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Notes to physician
Treat symptomatically.
Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media
Dry chemical
Carbon dioxide (CO2)
Water spray
Foam

Unsuitable extinguishing media
Do NOT use water jet.

Specific hazards during firefighting
Cool closed containers exposed to fire with water spray.

Hazardous combustion products
Carbon oxides (CO, CO2), sulphur oxides (SOx), sulphur compounds (H2S), smoke and irritating vapours as products of incomplete combustion.

Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
For personal protection see section 8.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Material can create slippery conditions.

Environmental precautions
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up
Prevent further leakage or spillage if safe to do so.
Remove all sources of ignition.
Soak up with inert absorbent material.
Non-sparking tools should be used.
Ensure adequate ventilation.
Contact the proper local authorities.
SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Use only with adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin, eyes and clothing.
Do not ingest.
Wash hands before breaks and immediately after handling the product.
Keep away from heat and sources of ignition.
Keep container closed when not in use.
Avoid inhalation of vapour or mist.
Avoid spark promoters. Ground/bond container and equipment.
These alone may be insufficient to remove static electricity.
Hydrogen sulphide may be released and collect in the vapor space of process vessels and storage tanks.

Conditions for safe storage:
Store in original container.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep in a dry, cool and well-ventilated place.
Keep in properly labelled containers.
To maintain product quality, do not store in heat or direct sunlight.
Hydrogen sulphide may be released and collect in the vapor space of process vessels and storage tanks.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen sulphide</td>
<td>7783-06-4</td>
<td>TWA</td>
<td>10 ppm/14 mg/m3</td>
<td>CA AB OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling</td>
<td>15 ppm/21 mg/m3</td>
<td>CA AB OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling</td>
<td>10 ppm</td>
<td>CA BC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10 ppm</td>
<td>CA ON OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>15 ppm</td>
<td>CA ON OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWAEV</td>
<td>10 ppm/14 mg/m3</td>
<td>CA QC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEV</td>
<td>15 ppm/21 mg/m3</td>
<td>CA QC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>5 ppm</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

Engineering measures:
Adequate ventilation to ensure that Occupational Exposure
Limits are not exceeded.

**Personal protective equipment**

Respiratory protection: Concentration in air determines protection needed. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If hydrogen sulphide is present full-face supplied air respirator with escape bottle or SCBA is required.

Filter type: A minimum of NIOSH-approved air-purifying respirator with an organic vapour cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection

Material: polyvinyl alcohol (PVA), Viton(R). Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

Remarks: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Chemical splash goggles should be worn when handling this material. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures: Wash contaminated clothing before re-use.

Hygiene measures: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.
**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>viscous liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>brown</td>
</tr>
<tr>
<td>Odour</td>
<td>aromatic, &quot;Rotten egg&quot; if H2S present, but odour is an unreliable warning, since it may deaden the sense of smell.</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>6 °C (43 °F)</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>228.4 °C (443.1 °F)</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt; 130 °C (266 °F) Method: Seta closed cup</td>
</tr>
<tr>
<td><strong>Auto-Ignition Temperature</strong></td>
<td>400 °C (752 °F)</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>Headspace vapours can be flammable. Oil has low potential fire hazard, must be moderately heated before ignition will occur. This product can accumulate static charge and ignite. Hydrogen sulphide may accumulate in the tank headspace or any other confined space.</td>
</tr>
<tr>
<td><strong>Upper explosion limit</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Lower explosion limit</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>&lt; 7.5 mmHg (20 °C / 68 °F)</td>
</tr>
<tr>
<td><strong>Relative vapour density</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>1.086 (15 °C / 59 °F)</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>1,085 kg/m³ (15 °C / 59 °F)</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>insoluble</td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>347.1 cSt (40 °C / 104 °F)</td>
</tr>
</tbody>
</table>
SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerisation does not occur.
Conditions to avoid : Extremes of temperature and direct sunlight.
Incompatible materials : Reactive with oxidising agents, lead dioxide and interhalogens.
Hazardous decomposition products : May release COx, SOx, H2S, smoke and irritating vapours when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Eye contact
Skin contact
Ingestion

Acute toxicity

Product:
Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity : Remarks: Harmful if inhaled.
  Acute toxicity estimate: 4.1 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist
  Method: Calculation method
Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Components:
clarified oils (petroleum), catalytic cracked:
Acute inhalation toxicity : LC50 (Rat): 4.1 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist

sulfur:
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg,
Skin corrosion/irritation

**Product:**
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

**Product:**
Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

**Product:**
Remarks: May cause an allergic skin reaction.

Germ cell mutagenicity

**Product:**
Germ cell mutagenicity-Assessment: May cause genetic defects.

Carcinogenicity

**Product:**
Carcinogenicity - Assessment: May cause cancer.

Reproductive toxicity

**Product:**
Reproductive toxicity - Assessment: May damage fertility or the unborn child.

STOT - single exposure

**Product:**
Remarks: Based on available data, the classification criteria are not met.

STOT - repeated exposure

**Product:**
Target Organs: Liver, Blood, thymus
Remarks: Causes damage to organs through prolonged or repeated exposure.

No data available

Aspiration toxicity

**Product:**
Based on available data, the classification criteria are not met.
### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

**Product:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to fish</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to daphnia and other aquatic invertebrates</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to algae</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to bacteria</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

**Product:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradability</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

| Waste from residues | The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal. |

### SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**IATA-DGR**

Not regulated as a dangerous good
IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

TDG
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

The components of this product are reported in the following inventories:

DSL On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

For Copy of SDS : Internet: www.petro-canada.ca/msds
                  Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-1228
                  For Product Safety Information: 1 905-804-4752

Prepared by : Product Safety: +1 905-804-4752
Revision Date : 2019/07/05

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