Section I. Chemical Product and Company Identification

Product Name: DURON* XL 0W-30 ENGINE OIL

Synonym: RDL3293

Manufacturer: PETRO-CANADA
P.O. Box 2844
Calgary, Alberta
T2P 3E3

Material Uses: DURON* XL 0W30 is an engine oil for use in 4-stroke compression and spark ignition engines under extended ambient conditions, including temperatures below -40ºC. Mobile equipment applications include heavy duty highway and off-highway operations, as well as smaller trucks and cars. The product may also be used in many types of wet clutch transmissions and hydraulic systems.

In case of Emergency:
- Petro-Canada: 403-296-3000
- Canutec Transportation: 613-996-6666
- Poison Control Centre: Consult local telephone directory for emergency number(s).

Section II. Composition and Information on Ingredients

Name | CAS # | % (W/W) | TLV-TWA(8 h) | STEL | CEILING
--- | --- | --- | --- | --- | ---
1) A mixture of synthetic high viscosity index paraffinic hydrocarbons, severely hydrotreated paraffinic oil, and additives. | Mixture | 100 | 5 mg/m³ (oil mist) | 10 mg/m³ (oil mist) | Not established

Section III. Hazards Identification

Potential Health Effects: Non irritating to slight transient irritation to skin and eyes, but no permanent damage. Relatively non-toxic via ingestion. This product has a low vapour pressure and is not expected to present an inhalation exposure at ambient conditions. Upon heating to high temperatures, or mechanical actions which may produce vapours or mists, inhalation of product may cause irritation of the breathing passages. For more information, refer to Section 11.

Section IV. First Aid Measures

Eye Contact: IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.

Skin Contact: Remove contaminated clothing - launder before reuse. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Seek medical attention.

Inhalation: Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform artificial respiration. Allow the victim to rest in a well ventilated area. Seek medical attention.

Ingestion: DO NOT induce vomiting because of danger of aspirating liquid into lungs. Seek medical attention.

Note to Physician: Not available

Section V. Fire-fighting Measures

Flammability: May be combustible at high temperature.

Flammable Limits: Not available.

Flash Points: Open Cup: 225°C (Cleveland)

Auto-Ignition Temperature: Fire Point: 247°C

Fire Hazards in Presence of Various Substances: Low fire hazard. This material must be heated before ignition will occur.

Explosion Hazards in Presence of Various Substances: Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.

Products of Combustion: Carbon oxides (CO, CO2), smoke and irritating vapours as products of incomplete combustion.
Fire Fighting

Media and Instructions

NAERG96, GUIDE 171, Substances (low to moderate hazard). If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions; also, consider initial evacuation for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from area and let fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. SMALL FIRE: use DRY chemicals, foam, water spray or CO2. LARGE FIRE: use water spray, fog or foam. For small outdoor fires, portable fire extinguishers may be used, and self contained breathing apparatus (SCBA) may not be required. For all indoor fires and any significant outdoor fires, SCBA is required. Respiratory and eye protection are required for fire fighting personnel.

Section VI. Accidental Release Measures

Material Release or Spill

NAERG96, GUIDE 171, Substances (low to moderate hazard). ELIMINATE ALL IGNITION SOURCES. Avoid contact. Stop leak if without risk. Contain spill. Absorb with inert absorbents, dry clay, or diatomaceous earth. Avoid inhaling dust of diatomaceous earth for it may contain silica in very fine particle size, making this a potential respiratory hazard. Place used absorbent in closed metal containers for later disposal or burn absorbent in a suitable combustion chamber. DO NOT FLUSH TO SEWERS, STREAMS OR OTHER BODIES OF WATER. Check with applicable jurisdiction for specific disposal requirements of spilled material and empty containers. Notify the appropriate authorities immediately.

Section VII. Handling and Storage

Handling

Avoid inhalation and skin contact especially when handling used oil. Keep away from sources of ignition. DO NOT reuse empty containers without commercial cleaning or reconditioning. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.

Storage

Store in tightly closed containers in cool, dry, isolated, well-ventilated area, and away from incompatibles.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to work-station.

Personal Protection

- The selection of personal protective equipment varies, depending upon conditions of use.

  Eyes
  Eye protection (i.e., safety glasses, safety goggles and/or face shield) should be determined based on conditions of use. If product is used in an application where splashing may occur, the use of safety goggles and/or a face shield should be considered.

  Body
  Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.

  Respiratory
  Where concentrations in air may exceed the occupational exposure limits given in Section 2 (and those applicable to your area) and where engineering, work practices or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

  Hands
  Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.

  Feet
  Wear appropriate footwear to prevent product from coming in contact with feet and skin.

Section IX. Physical and Chemical Properties

Physical State and Appearance

Viscous liquid.

Viscosity

66 cSt @ 40°C

Colour

Amber.

Pour Point

-51°C

Odour

Mild petroleum oil like.

Softening Point

Not applicable.

Odour Threshold

Not available.

Dropping Point

Not applicable.

Boiling Point

Not available.

Penetration

Not applicable.

Density

0.8423 kg/L @ 15°C (59°F).

Oil / Water Dist. Coeff.

Not available

Vapour Density

Not available.

Ionicity (in water)

Not available

Vapour Pressure

Negligible at ambient temperature and pressure.

Dispersion Properties

Not available

Volatility

Non-volatile.

Solubility

Insoluble in water.

Section X. Stability and Reactivity

Corrosivity

Copper corrosion, 3h, 100°C (ASTM D0130): 1a.

Stability

The product is stable under normal handling and storage conditions. Hazardous Polymerization

Will not occur under normal working conditions.

Incompatible Substances / Conditions to Avoid

Incompatible with oxidizing agents, acids, halogens and halogen compounds.

Decomposition Products

COx, SOx, H2S, CaOx, ZnOx, aldehydes, alkyl mercaptans, sulfides, methacrylate monomers, smoke and irritating vapours as products of incomplete combustion.
### Section XI. Toxicological Information

**Routes of Entry**
Skin contact, eye contact, inhalation, and ingestion.

**Acute Lethality**
Based on toxicity of components.
- Acute oral toxicity (LD50): >5000 mg/kg (rat).
- Acute dermal toxicity (LD50): >2000 mg/kg (rabbit).
- Acute inhalation toxicity (LC50): >2500 mg/m³/4h (rat).

**Chronic or Other Toxic Effects**

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect Description</th>
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</thead>
<tbody>
<tr>
<td>Dermal Route</td>
<td>Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oil acne.</td>
</tr>
<tr>
<td>Inhalation Route</td>
<td>Negligible breathing hazard at normal temperatures (up to 38°C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.</td>
</tr>
<tr>
<td>Oral Route</td>
<td>Low toxicity; has laxative effect.</td>
</tr>
<tr>
<td>Eye Irritation/Inflammation</td>
<td>Repeated or prolonged contact may cause transient irritation, but no permanent damage.</td>
</tr>
<tr>
<td>Immunotoxicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>This product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.</td>
</tr>
<tr>
<td>Respiratory Tract Sensitization</td>
<td>This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.</td>
</tr>
<tr>
<td>Mutagenic</td>
<td>Based on actual test results of base oils and results of similar products, severely hydrotreated base oils give negative results when tested for: (a) Salmonella Typhimurium TA98 using the Modified Ames Assay for Petroleum Product; (b) Salmonella-Escherichia coli/Mammalian-Microsome Reverse Mutation Assay (Ames test) with a Confirmatory Assay; (c) Structural Chromosomal Aberrations in Chinese Hamster Ovary (CHO) Cells.</td>
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<tr>
<td>Reproductive Toxicity</td>
<td>This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.</td>
</tr>
<tr>
<td>Teratogenicity/Embryotoxicity</td>
<td>This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.</td>
</tr>
<tr>
<td>Carcinogenicity (ACGIH)</td>
<td>This product is not known to contain any chemicals at reportable quantities that are listed as A1 or A2 carcinogens by ACGIH.</td>
</tr>
<tr>
<td>Carcinogenicity (IARC)</td>
<td>This product is not known to contain any chemicals at reportable quantities that are listed as group 1, 2A or 2B carcinogens by IARC.</td>
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<tr>
<td>Carcinogenicity (NTP)</td>
<td>This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.</td>
</tr>
<tr>
<td>Carcinogenicity (IRIS)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Carcinogenicity (OSHA)</td>
<td>This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.</td>
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**Other Considerations**
No additional remark.

### Section XII. Ecological Information

**Environmental Fate**
Not available

**BOD5 and COD**
Not available. Not available.

**Additional Remarks**
No additional remark.

### Section XIII. Disposal Considerations

**Waste Disposal**
Spent/used/waste oil may meet the requirements of a hazardous waste. Consult your local or regional authorities. Preferred waste management priorities are: (1) recycle or reprocess; (2) incineration with energy recovery; (3) disposal at licensed waste disposal facility. Ensure that disposal or reprocessing is in compliance with government requirements and local disposal regulations.

### Section XIV. Transport Information

**DOT Classification**
Not regulated.

**Special Provisions for Transport**
Not applicable.

### Section XV. Regulatory Information

**Other Regulations**
This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are listed on the CEPA-DSL (Domestic Substances List).

All components of this formulation are listed on the US EPA-TSCA Inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.
### References
Available upon request.
* Marque de commerce de Petro-Canada - Trademark

### Glossary
- ACGIH - American Conference of Governmental Industrial Hygienists
- ASTM - American Society for Testing and Materials
- CAS - Chemical Abstract Services
- CEPA - Canadian Environmental Protection Act
- CERCLA - Comprehensive Environmental Response, Compensation and Liability Act
- ADR - Agreement on Dangerous goods by Road (Europe)
- DSD/DPD - Dangerous Substances or Dangerous Preparations Directives (Europe)
- CAN/CGA B149.2 - Propane Installation Code
- CAS - Chemical Abstract Services
- ADR (Europe) (Pictograms)
- TDG (Canada) (Pictograms)
- TDG (Canada)
- ADR (Europe)
- DSD/DPD (EEC)
- WHMIS (Canada)
- Not controlled under DSCL (Europe).
- Not controlled

### Section XVI. Other Information

#### For Copy of MSDS

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<tr>
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<tbody>
<tr>
<td>Western Canada, telephone: 1-800-661-1199; fax: (780) 464-9564</td>
<td>Data entry by Product Safety - JDW.</td>
</tr>
<tr>
<td>Ontario &amp; Central Canada, telephone: 1-800-268-5850 and (905) 822-4222; fax: 1-800-201-6285</td>
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<tr>
<td>Quebec &amp; Eastern Canada, telephone: 1-800-576-1686; fax: 800-201-6285</td>
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#### For Product Safety Information: (905) 804-4752

**To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**