

# SAFETY DATA SHEET

## DURON<sup>TM/MC</sup> -E SYNTHETIC 0W-40

000003000944



Version 4.0

Revision Date 2016/10/28

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### SECTION 1. IDENTIFICATION

Product name : DURON<sup>TM/MC</sup> -E SYNTHETIC 0W-40

Product code : DESYN04P20, DESYN04IBC, DESYN04DRM,  
DESYN04DCT, DESYN04C16, DESYN04, DESYN04BLK

Manufacturer or supplier's details  
Petro-Canada Lubricants Inc.  
2310 Lakeshore Road West  
Mississauga ON L5J 1K2  
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).

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

Recommended use : A high quality heavy duty engine oil specifically designed for low temperature operation and 2015 (and beyond) EPA engine requirements, along with improved performance benefits in legacy engines. Application includes modern low emission diesel engines with cooled exhaust gas recirculation and exhaust after treatment technology. It is also suitable for some passenger car and light truck diesel engines, and spark ignition engines.

Prepared by : Product Safety: +1 905-804-4752

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                |
|------------|----------------|
| Appearance | viscous liquid |
| Colour     | amber          |
| Odour      | mild           |

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Potential Health Effects

Primary Routes of Entry : Eye contact  
Ingestion

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Inhalation  
Skin contact

Aggravated Medical Condition : None known.

### Other hazards

None known.

### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

| Chemical name  | CAS-No.     | Concentration |
|--|-------------|---------------|
| lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0  | 30 - 50 %     |
| distillates (petroleum), solvent-dewaxed heavy paraffinic            | 64742-65-0  | 1 - 5 %       |
| Zinc alkyldithiophosphate  | 113706-15-3 | 1 - 5 %       |

## 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 eyes or 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 physi-

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cian 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 : First aider needs to protect himself.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : No information available.

Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.

Hazardous combustion products : Carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), sulphur oxides (SO<sub>x</sub>), phosphorus oxides (PO<sub>x</sub>), sulphur compounds (H<sub>2</sub>S), zinc oxides (ZnO<sub>x</sub>), metal oxides, hydrocarbons, smoke and irritating vapours as products of incomplete combustion.

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

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
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.  
In case of insufficient ventilation, wear suitable respiratory

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equipment.  
Avoid contact with skin, eyes and clothing.  
Do not ingest.  
Keep away from heat and sources of ignition.  
Keep container closed when not in use.

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.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components   | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|--|------------|----------------------------------|--|-----------|
| lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0 | TWA (Mist)                       | 5 mg/m <sup>3</sup>                            | CA AB OEL |
|  |            | STEL (Mist)                      | 10 mg/m <sup>3</sup>                           | CA AB OEL |
|  |            | TWAEV (Mist)                     | 5 mg/m <sup>3</sup>                            | CA QC OEL |
|  |            | STEV (Mist)                      | 10 mg/m <sup>3</sup>                           | CA QC OEL |
| lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0 | TWA (Inhalable fraction)         | 5 mg/m <sup>3</sup>                            | ACGIH     |
|  |            | TWA (Mist)                       | 5 mg/m <sup>3</sup>                            | CA AB OEL |
|  |            | STEL (Mist)                      | 10 mg/m <sup>3</sup>                           | CA AB OEL |
|  |            | TWAEV (Mist)                     | 5 mg/m <sup>3</sup>                            | CA QC OEL |
| lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0 | STEV (Mist)                      | 10 mg/m <sup>3</sup>                           | CA QC OEL |
|  |            | TWA (Inhalable fraction)         | 5 mg/m <sup>3</sup>                            | ACGIH     |
|  |            | TWA (Mist)                       | 5 mg/m <sup>3</sup>                            | CA AB OEL |
|  |            | STEL (Mist)                      | 10 mg/m <sup>3</sup>                           | CA AB OEL |
| lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0 | TWAEV (Mist)                     | 5 mg/m <sup>3</sup>                            | CA QC OEL |
|  |            | STEV (Mist)                      | 10 mg/m <sup>3</sup>                           | CA QC OEL |
|  |            | TWA (Inhalable fraction)         | 5 mg/m <sup>3</sup>                            | ACGIH     |
|  |            | TWA (Mist)                       | 5 mg/m <sup>3</sup>                            | CA AB OEL |

Engineering measures : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

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|                             |  |
|-----------------------------|--|
| Respiratory protection      | : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. 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. |
| Filter type                 | : organic vapour filter  |
| Hand protection<br>Material | : neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R).  |
| 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              | : Wear face-shield and protective suit for abnormal processing problems.   |
| 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 hands and face before breaks and immediately after handling the product.<br>Wash contaminated clothing before re-use.<br>Ensure that eyewash station and safety shower are proximal to the work-station location.   |
| Hygiene measures            | : Wash face, hands and any exposed skin thoroughly after handling.<br>Remove and wash contaminated clothing and gloves, including the inside, before re-use.   |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |   |
|-----------------------------|---|
| Appearance                  | : viscous liquid                                |
| Colour                      | : amber   |
| Odour                       | : mild  |
| Odour Threshold             | : No data available                             |
| pH                          | : No data available                             |
| Pour point                  | : -45 °C (-49 °F)                               |
| Boiling point/boiling range | : No data available                             |
| Flash point                 | : 224 °C (435 °F)<br>Method: Cleveland open cup |
| Fire Point                  | : 235 °C (455 °F)                               |

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|  |  |
|--|--|
| Auto-Ignition Temperature              | : No data available  |
| Evaporation rate                       | : No data available  |
| Flammability                           | : Low fire hazard. This material must be heated before ignition will occur.                                      |
| Upper explosion limit                  | : No data available  |
| Lower explosion limit                  | : No data available  |
| Vapour pressure                        | : No data available  |
| Relative vapour density                | :<br>No data available   |
| Relative density                       | :<br>No data available   |
| Density                                | : 0.8447 kg/l (15 °C / 59 °F)  |
| Solubility(ies)                        |  |
| Water solubility                       | : insoluble  |
| Partition coefficient: n-octanol/water | : No data available  |
| Viscosity                              |  |
| Viscosity, kinematic                   | : 82.0 cSt (40 °C / 104 °F)<br><br>14.46 cSt (100 °C / 212 °F)   |
| Explosive properties                   | : Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |

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### SECTION 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Possibility of hazardous reactions | : Hazardous polymerisation does not occur.<br>Stable under normal conditions.                                |
| Conditions to avoid                | : No data available  |
| Incompatible materials             | : Reactive with oxidising agents, reducing agents and water.   |
| Hazardous decomposition products   | : May release CO <sub>x</sub> , H <sub>2</sub> S, smoke and irritating vapours when heated to decomposition. |

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Eye contact  
Ingestion  
Inhalation  
Skin contact

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### Acute toxicity

#### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### Components:

##### **lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg,

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg,

##### **distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg,

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg,

### Skin corrosion/irritation

#### Product:

Remarks: No data available

### Serious eye damage/eye irritation

#### Product:

Remarks: No data available

### Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

No data available

### Reproductive toxicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

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No data available

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other :  
aquatic invertebrates Remarks: No data available

Toxicity to algae :  
Remarks: No data available

Toxicity to bacteria : Remarks: No data available

#### Persistence and degradability

##### Product:

Biodegradability : Remarks: No data available

#### 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 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



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### 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

**WHMIS Classification** : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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

|               |   |
|---------------|---|
| <b>DSL</b>    | On the inventory, or in compliance with the inventory   |
| <b>TSCA</b>   | All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption. |
| <b>ELINCS</b> | At least one component is not listed in EINECS but all such components are listed in ELINCS.  |

## SECTION 16. OTHER INFORMATION

For Copy of SDS : Internet: [lubricants.petro-canada.ca/msds](http://lubricants.petro-canada.ca/msds)  
Western Canada, telephone: 1-800-661-1199; fax: 1-800-378-4518  
Ontario & Central Canada, telephone: 1-800-268-5850; fax: 1-800-201-6285  
Quebec & Eastern Canada, telephone: 1-800-576-1686; fax: 1-800-201-6285  
For Product Safety Information: 1 905-804-4752

Prepared by : Product Safety: +1 905-804-4752

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