

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## PURITY™ FG SYNTHETIC EP GEAR FLUID 220

000003001100

Version 7.0

Revision Date 25.04.2025

Print Date 25.04.2025

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : PURITY™ FG SYNTHETIC EP GEAR FLUID 220

Product code : PFSN220P20, PFSN220, PFSN220DRU

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : PURITY FG Synthetic EP Gear Fluid 220 is a food grade lub-  
ricant.

NSF H1 Registered.

This product complies with FDA 21 CFR 178.3570 "Lubricants with Incidental Food Contact". It is intended for application on industrial and food equipment. It should not be added directly to the food product.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer or supplier's details

Petro-Canada Europe Lubricants Limited  
3rd Floor, 1 Ashley Road  
Altrincham Cheshire WA14 2DT  
United Kingdom

Telephone : +44 (0) 121 781 7264

E-mail address of person  
responsible for the SDS : EUSDS@hfsinclair.com

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber : CHEMTREC: +1-703-741-5970;  
Poison Control Centre: Consult local telephone directory for  
emergency number(s).

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Long-term (chronic) aquatic hazard, Cat-  
egory 2

H411: Toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P273 Avoid release to the environment.

**Response:**

P391 Collect spillage.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name                                                         | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                          | Concentration<br>(% w/w) |
|-----------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 2,6-di-tert-butyl-p-cresol                                            | 128-37-0<br>204-881-4                                 | Aquatic Chronic 1;<br>H410<br>Aquatic Acute 1;<br>H400                                                                  | 0.25 - 1                 |
| O,O,O-triphenyl phosphorothioate                                      | 597-82-0<br>209-909-9                                 | Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 1<br>M-Factor (Chronic<br>aquatic toxicity): 10 | 0.25 - 1                 |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1<br>270-128-1                               | Aquatic Chronic 3;<br>H412<br>Repr. 2; H361f                                                                            | 0.1 - 0.25               |

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For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                         |   |                                                                                                                                                                                                                                                                             |
|-------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled              | : | Move to fresh air.<br>Artificial respiration and/or oxygen may be necessary.<br>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.<br>Wash skin thoroughly with soap and water or use recognized skin cleanser.<br>Wash clothing before reuse.<br>Seek medical advice. |
| In case of eye contact  | : | Remove contact lenses.<br>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Obtain medical attention.                                                                                                                             |
| If swallowed            | : | Rinse mouth with water.<br>DO NOT induce vomiting unless directed to do so by a physician or poison control center.<br>Never give anything by mouth to an unconscious person.<br>Seek medical advice.                                                                       |

#### 4.2 Most important symptoms and effects, both acute and delayed

- |       |   |                                       |
|-------|---|---------------------------------------|
| Risks | : | First aider needs to protect himself. |
|-------|---|---------------------------------------|

#### 4.3 Indication of any immediate medical attention and special treatment needed

- |           |   |                        |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|

---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- |                                |   |                                                                                                         |
|--------------------------------|---|---------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : | No information available.                                                                               |

#### 5.2 Special hazards arising from the substance or mixture

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

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Hazardous combustion products : Carbon oxides (CO, CO<sub>2</sub>), silicon oxides (SiO<sub>x</sub>), formaldehyde, smoke and irritating vapours as products of incomplete combustion.

### 5.3 Advice for firefighters

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

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
Material can create slippery conditions.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

### 6.3 Methods and material for containment and cleaning up

Methods for 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.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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.

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Keep away from heat and sources of ignition.  
Keep container closed when not in use.

Advice on protection against fire and explosion : None known.

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.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

### 7.3 Specific end use(s)

Specific use(s) : For further information see Section 1 of the safety data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                 | CAS-No.  | Value type (Form of exposure) | Control parameters   | Basis   |
|----------------------------|----------|-------------------------------|----------------------|---------|
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | TWA                           | 10 mg/m <sup>3</sup> | GB EH40 |

### 8.2 Exposure controls

#### Engineering measures

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

#### Personal protective equipment

Eye/face protection : Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Material : neoprene, nitrile, polyvinyl alcohol (PVA), Viton®.

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.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the spe-

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|                        |                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | cific work-place.                                                                                                                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                                                                                          |
| Protective measures    | : Wash contaminated clothing before re-use.                                                                                                                                                                                                                                                                                                      |

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Physical state                                   | : liquid                               |
| Colour                                           | : Colourless to light yellow.          |
| Odour                                            | : mild                                 |
| Odour Threshold                                  | : No data available                    |
| Pour point                                       | : -45 °C                               |
| Boiling point/boiling range                      | : No data available                    |
| Flash point                                      | : 281 °C<br>Method: Cleveland open cup |
| pH                                               | : No data available                    |
| Fire Point                                       | : No data available                    |
| Auto-Ignition Temperature                        | : No data available                    |
| Evaporation rate                                 | : No data available                    |
| Upper explosion limit / Upper flammability limit | : No data available                    |
| Lower explosion limit / Lower flammability limit | : No data available                    |

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|                                        |   |                                                                                                                |
|----------------------------------------|---|----------------------------------------------------------------------------------------------------------------|
| Vapour pressure                        | : | No data available                                                                                              |
| Relative vapour density                | : | No data available                                                                                              |
| Relative density                       | : | No data available                                                                                              |
| Density                                | : | 0.8470 kg/l (15 °C)                                                                                            |
| Solubility(ies)<br>Water solubility    | : | insoluble                                                                                                      |
| Partition coefficient: n-octanol/water | : | No data available                                                                                              |
| Decomposition temperature              | : | No data available                                                                                              |
| Viscosity<br>Viscosity, kinematic      | : | 221 cSt (40 °C)<br>25.8 cSt (100 °C)                                                                           |
| Flammability                           | : | Low fire hazard. This material must be heated before ignition will occur.                                      |
| Explosive properties                   | : | Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |

### 9.2 Other information

|               |   |                   |
|---------------|---|-------------------|
| Particle size | : | No data available |
|---------------|---|-------------------|

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

|                     |   |                                          |
|---------------------|---|------------------------------------------|
| Hazardous reactions | : | Hazardous polymerisation does not occur. |
|---------------------|---|------------------------------------------|

### 10.4 Conditions to avoid

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Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Reactive with oxidising agents, acids and alkalis.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : May release CO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub>, PO<sub>x</sub>, formaldehyde, smoke and irritating vapours when heated to decomposition.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### Components:

##### **O,O,O-triphenyl phosphorothioate:**

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

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

##### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

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

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

#### **Skin corrosion/irritation**

Not classified due to lack of data.

#### **Serious eye damage/eye irritation**

Not classified due to lack of data.

#### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified due to lack of data.

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### Respiratory sensitisation

Not classified due to lack of data.

### Germ cell mutagenicity

Not classified due to lack of data.

### Carcinogenicity

Not classified due to lack of data.

### Reproductive toxicity

Not classified due to lack of data.

### STOT - single exposure

Not classified due to lack of data.

### STOT - repeated exposure

Not classified due to lack of data.

### Aspiration toxicity

Not classified due to lack of data.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

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

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

#### Components:

##### **O,O,O-triphenyl phosphorothioate:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0.0017 mg/l

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icity) Exposure time: 97 d  
Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Chronic aquatic toxicity) : 10

### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 51 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

## 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

### Components:

#### O,O,O-triphenyl phosphorothioate:

Assessment : PBT substance

## 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : 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.

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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

#### 14.1 UN number or ID number

|              |   |         |
|--------------|---|---------|
| ADN          | : | UN 3082 |
| ADR          | : | UN 3082 |
| RID          | : | UN 3082 |
| IMDG         | : | UN 3082 |
| IATA (Cargo) | : | UN 3082 |

#### 14.2 UN proper shipping name

|              |   |                                                                                           |
|--------------|---|-------------------------------------------------------------------------------------------|
| ADN          | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(O,O,O-triphenyl phosphorothioate) |
| ADR          | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(O,O,O-triphenyl phosphorothioate) |
| RID          | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(O,O,O-triphenyl phosphorothioate) |
| IMDG         | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(O,O,O-triphenyl phosphorothioate) |
| IATA (Cargo) | : | Environmentally hazardous substance, liquid, n.o.s.<br>(O,O,O-triphenyl phosphorothioate) |

#### 14.3 Transport hazard class(es)

|              | Class | Subsidiary risks |
|--------------|-------|------------------|
| ADN          | :     | 9                |
| ADR          | :     | 9                |
| RID          | :     | 9                |
| IMDG         | :     | 9                |
| IATA (Cargo) | :     | 9                |

#### 14.4 Packing group

|                      |   |     |
|----------------------|---|-----|
| ADN<br>Packing group | : | III |
|----------------------|---|-----|

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Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### ADR

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

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

DSL : On the inventory, or in compliance with the inventory

TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

IECSC : On the inventory, or in compliance with the inventory

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

### SECTION 16: Other information

#### Full text of H-Statements

H361f : Suspected of damaging fertility.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Repr. : Reproductive toxicity  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

For Copy of SDS

: Internet: [www.petrocanadalubricants.com/sds](http://www.petrocanadalubricants.com/sds)  
Order Email for packed goods: [pcepackage@hfsinclair.com](mailto:pcepackage@hfsinclair.com)  
Order Email for bulk: [pceorders@hfsinclair.com](mailto:pceorders@hfsinclair.com)  
Telephone: +31 88313 0365 / +31 88313 0366  
For Product Safety Information: 1 905-491-0565

Prepared by

: Product Safety: +1 905-491-0565

### Classification of the mixture:

Aquatic Chronic 2

H411

### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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