#### 000003000488

Version 2.7

Revision Date 2022/08/15



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#### **SECTION 1. IDENTIFICATION**

| Product name :                                | TURBOFLO TM/MC R&O 68  |  |  |  |
|---|--|--|--|--|
| Product code :                                | TFRO68IBC, TFRO68DCT, TFRO68P5R, TFRO68P20,<br>TFRO68DRR, TFRO68DRM, TFRO68, TFRO68BLK   |  |  |  |
| Manufacturer or supplier's def<br>Telephone : | Petro-Canada America Lubricants LLC<br>2828 N. Harwood St., Suite 1300<br>Dallas TX 75201<br>United States<br>1-214-871-3555   |  |  |  |
| Emergency telephone number                    |  |  |  |  |
| Emergency telephone :<br>number               | CHEMTREC: 1-800-424-9300;<br>Poison Control Centre: Consult local telephone directory for<br>emergency number(s).  |  |  |  |
| Recommended use of the che                    | mical and restrictions on use  |  |  |  |
| Recommended use :                             | Turboflo R&O are fluids formulated to have long service life<br>and provide corrosion and oxidation resistance in a wide<br>range of applications. Primarily recommended as circulating<br>oil for various industrial machinery. The 32 through 68 grades<br>may also be used as gas and steam turbine lubricants. |  |  |  |
| Prepared by :                                 | Product Safety: +1 905-491-0565  |  |  |  |

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### 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. |
|------|---|
| OSHA | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.                                |
| NTP  | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.                 |

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

Mixture

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#### Components

| Chemical name  | CAS-No.    | Concentration (% w/w) |
|--|------------|-----------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified                                      | 64742-54-7 | 90 - 100              |
| Lubricating oils (petroleum), C20-50,<br>hydrotreated neutral oil-based; Baseoil —<br>unspecified                  | 72623-87-1 | 50 - 70               |
| Lubricating oils (petroleum), C20-50,<br>hydrotreated neutral oil-based, high-<br>viscosity; Baseoil — unspecified | 72623-85-9 | 30 - 50               |

Actual concentration is withheld as a trade secret

#### SECTION 4. 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                                     | <ul> <li>In case of contact, immediately flush skin with plenty of water<br/>for at least 15 minutes while removing contaminated clothing<br/>and shoes.</li> <li>Wash skin thoroughly with soap and water or use recognized<br/>skin cleanser.</li> <li>Wash clothing before reuse.</li> <li>Seek medical advice.</li> </ul> |
| In case of eye contact                                      | <ul> <li>Remove contact lenses.</li> <li>Rinse immediately with plenty of water, also under the eyelids,<br/>for at least 15 minutes.</li> <li>Obtain medical attention.</li> </ul>   |
| If swallowed  | <ul> <li>Rinse mouth with water.</li> <li>DO NOT induce vomiting unless directed to do so by a physician or poison control center.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>Seek medical advice.</li> </ul>   |
| 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 firefighting | : | Cool closed containers exposed to fire with water spray.  |



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| Hazardous combustion products | : | Carbon oxides (CO, CO2), nitrogen oxides (SOx), smoke and irritating v incomplete combustion. |                         |
| Further information           | : | Prevent fire extinguishing water from water or the ground water system.                       | n contaminating surface |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions,<br>protective equipment and<br>emergency procedures | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Evacuate personnel to safe areas.<br>Material can create slippery conditions.<br>Mark the contaminated area with signs and prevent access to<br>unauthorized personnel.<br>Only qualified personnel equipped with suitable protective<br>equipment may intervene. |
|---|---|---|
| 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.<br>Remove all sources of ignition.<br>Soak up with inert absorbent material.<br>Non-sparking tools should be used.<br>Ensure adequate ventilation.<br>Contact the proper local authorities.   |

#### SECTION 7. HANDLING AND STORAGE

| Advice on protection against fire and explosion | : | None known.  |
|---|---|--|
| Advice on safe handling                         | : | For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the<br>application area.<br>In case of insufficient ventilation, wear suitable respiratory<br>equipment.<br>Avoid contact with skin, eyes and clothing.<br>Do not ingest.<br>Keep away from heat and sources of ignition.<br>Keep container closed when not in use. |
| Conditions for safe storage                     | : | Store in original container.<br>Containers which are opened must be carefully resealed and<br>kept upright to prevent leakage.<br>Keep in a dry, cool and well-ventilated place.<br>Keep in properly labelled containers.<br>To maintain product quality, do not store in heat or direct<br>sunlight.  |

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

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| Components   | CAS-No.    | Value type<br>(Form of<br>exposure)         | Control<br>parameters /<br>Permissible<br>concentration | Basis     |
|--|------------|---|---|-----------|
| Distillates (petroleum),<br>hydrotreated heavy paraffinic;<br>Baseoil — unspecified                                  | 64742-54-7 | TWA<br>(Inhalable<br>particulate<br>matter) | 5 mg/m3   | ACGIH     |
|  |            | TWA (Mist)                                  | 5 mg/m3   | OSHA Z-1  |
|  |            | TWA (Mist)                                  | 5 mg/m3   | OSHA P0   |
|  |            | TWA (Mist)                                  | 5 mg/m3   | NIOSH REL |
|  |            | ST (Mist)                                   | 10 mg/m3  | NIOSH REL |
| Lubricating oils (petroleum),<br>C20-50, hydrotreated neutral<br>oil-based; Baseoil —<br>unspecified                 | 72623-87-1 | TWA<br>(Inhalable<br>particulate<br>matter) | 5 mg/m3   | ACGIH     |
| ·  |            | TWA (Mist)                                  | 5 mg/m3   | OSHA Z-1  |
|  |            | TWA (Mist)                                  | 5 mg/m3   | OSHA P0   |
|  |            | TWA (Mist)                                  | 5 mg/m3   | NIOSH REL |
|  |            | ST (Mist)                                   | 10 mg/m3  | NIOSH REL |
| Lubricating oils (petroleum),<br>C20-50, hydrotreated neutral<br>oil-based, high-viscosity;<br>Baseoil — unspecified | 72623-85-9 | TWA<br>(Inhalable<br>particulate<br>matter) | 5 mg/m3   | ACGIH     |
|  |            | TWA (Mist)                                  | 5 mg/m3   | OSHA Z-1  |
|  |            | TWA (Mist)                                  | 5 mg/m3   | OSHA P0   |
|  |            | TWA (Mist)                                  | 5 mg/m3   | NIOSH REL |
|  |            | ST (Mist)                                   | 10 mg/m3  | NIOSH REL |

Engineering measures

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

#### Personal protective equipment

:

| Respiratory protection      | : | Use respiratory protection unless adequate local exhaust<br>ventilation is provided or exposure assessment demonstrates<br>that exposures are within recommended exposure guidelines.<br>Respirator selection must be based on known or anticipated<br>exposure levels, the hazards of the product and the safe<br>working limits of the selected respirator. |
|-----------------------------|---|---|
| Filter type                 | : | organic vapour filter   |
| Hand protection<br>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.   |
| 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   |



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|                     |   | the specific work-place.  |                       |
| Protective measures | : | Wash contaminated clothing before re-   | use.                  |
| Hygiene measures    | : | Remove and wash contaminated clothir<br>including the inside, before re-use.<br>Wash face, hands and any exposed ski<br>handling. |                       |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance  | : | viscous liquid  |
|---|---|---|
| Colour  | : | Pale, straw-yellow.   |
| Odour   | : | Mild petroleum oil like.  |
| Odour Threshold                                     | : | No data available   |
| рН  | : | No data available   |
| Pour point<br>Boiling point/boiling range           | : | -30 °C (-22 °F)<br>No data available                                      |
| Flash point   | : | 234 °C (453 °F)<br>Method: Cleveland open cup                             |
| Fire Point  | : | 270 °C (518 °F)   |
| Evaporation rate                                    | : | No data available   |
| Flammability  | : | Low fire hazard. This material must be heated before ignition will occur. |
| Auto-Ignition Temperature                           | : | No data available   |
| Upper explosion limit / Upper<br>flammability limit | : | No data available   |
| Lower explosion limit / Lower<br>flammability limit | : | No data available   |
| Vapour pressure                                     | : | No data available   |
| Relative vapour density                             | : | No data available   |
| Relative density                                    | : | No data available   |
| Density   | : | 0.8675 kg/l (15 °C / 59 °F)   |
| Solubility(ies)                                     |   |   |
| Water solubility                                    | : | insoluble   |
| Partition coefficient: n-                           | : | No data available   |

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| octanol/water                     |   |  |                       |
| Viscosity<br>Viscosity, kinematic | : | 64.9 cSt (40 °C / 104 °F)  |                       |
|                                   |   | 8.6 cSt (100 °C / 212 °F)  |                       |
| Explosive properties              | : | Do not pressurize, cut, weld, braz<br>expose containers to heat or sou |                       |

#### 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, alkali metals, acids and alkalis.                 |
| Hazardous decomposition products   | : | May release COx, methacrylate monomers, smoke and irritating vapours when heated to decomposition. |

#### SECTION 11. TOXICOLOGICAL INFORMATION

|    | Information on likely routes<br>Eye contact<br>Ingestion<br>Inhalation<br>Skin contact | of e      | exposure   |    |
|----|--|-----------|--|----|
|    | Acute toxicity   |           |  |    |
|    | Product:<br>Acute oral toxicity  | :         | Remarks: No data available   |    |
|    | Acute inhalation toxicity  | :         | Remarks: No data available   |    |
|    | Acute dermal toxicity  | :         | Remarks: No data available   |    |
|    | Components:<br>Distillates (petroleum), hydro<br>Acute oral toxicity                   | otre<br>: | eated heavy paraffinic; Baseoil — unspecified:<br>LD50 (Rat): > 5,000 mg/kg, |    |
|    | Acute dermal toxicity  | :         | LD50 (Rabbit): > 2,000 mg/kg,  |    |
|    | Lubricating oils (petroleum), unspecified:   | C2        | 20-50, hydrotreated neutral oil-based; Baseoil —                             |    |
|    | Acute oral toxicity  | :         | LD50 (Rat): > 5,000 mg/kg,   |    |
|    | Acute inhalation toxicity  | :         | LC50 (Rat): > 5.2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist   |    |
|    | Acute dermal toxicity  | :         | LD50 (Rabbit): > 2,000 mg/kg,  |    |
| er | net: lubricants.petro-canada.com/s   | ds        |  | Pa |

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|  |        |  |                       |
| Lubricating oils (petroleu<br>Baseoil — unspecified: | n), C  | 20-50, hydrotreated neutral oil-ba   | ased, high-viscosity; |
| Acute oral toxicity                                  | :      | LD50 (Rat): > 5,000 mg/kg,   |                       |
| Acute inhalation toxicity                            | :      | LC50 (Rat): > 5.2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |                       |
| Acute dermal toxicity                                | :      | LD50 (Rabbit): > 2,000 mg/kg,  |                       |
| Skin corrosion/irritation                            |        |  |                       |
| Product:   |        |  |                       |
| Remarks  | :      | No data available  |                       |
| Serious eye damage/eye i                             | rritat | ion  |                       |
| Product:   |        |  |                       |
| Remarks  | :      | No data available  |                       |
| Respiratory or skin sensit                           | isati  | on   |                       |
| 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

No data available

## **SECTION 12. ECOLOGICAL INFORMATION**

| Ecotoxicity  |   |                            |  |
|--|---|----------------------------|--|
| <u>Product:</u><br>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<br>Internet: lubricants.petro-canada.com/s<br>Trademarks are owned or used under license. |   | Remarks: No data available | Page: `<br>Petro-Canada Lubricants is a HF Sinclai |



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| Persistence and degradability                         |   |                            |  |  |
|---|---|----------------------------|--|--|
| <u>Product:</u><br>Biodegradability                   | : | Remarks: No data available |  |  |
| <b>Bioaccumulative potential</b><br>No data available |   |                            |  |  |
| <b>Mobility in soil</b><br>No data available          |   |                            |  |  |
| Other adverse effects                                 |   |                            |  |  |

No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

| Waste from residues | <ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Offer surplus and non-recyclable solutions to a licensed disposal company.</li> <li>Waste must be classified and labelled prior to recycling or disposal.</li> <li>Send to a licensed waste management company.</li> </ul> |
|---------------------|--|
|                     | 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

#### **National Regulations**

**49 CFR** Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

California Prop. 65

This product contains chemical(s) known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. The chemicals include: 140-88-5

ethyl acrylate

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

:

DSL

On the inventory, or in compliance with the inventory

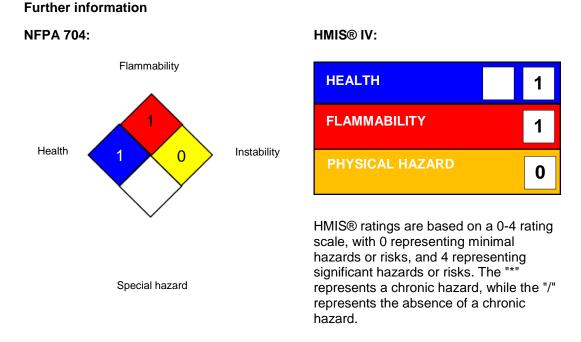
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# PETRO CANADA

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|-------------|--|-----------------------|
| TSCA        | : All chemical substances in this pro<br>TSCA Inventory or are in compliar<br>exemption. |                       |
| IECSC       | : On the inventory, or in compliance   | with the inventory    |

#### **SECTION 16. OTHER INFORMATION**



#### Full text of other abbreviations

| ACGIH<br>NIOSH REL<br>OSHA P0 | : | USA. ACGIH Threshold Limit Values (TLV)<br>USA. NIOSH Recommended Exposure Limits<br>USA. Table Z-1-A Limits for Air Contaminants (1989 vacated<br>values) |
|-------------------------------|---|--|
| OSHA Z-1                      | : | USA. Óccupational Exposure Limits (OSHA) - Table Z-1<br>Limits for Air Contaminants  |
| ACGIH / TWA                   | : | 8-hour, time-weighted average  |
| NIOSH REL / TWA               | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  |
| NIOSH REL / ST                | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday   |
| OSHA P0 / TWA                 | : | 8-hour time weighted average   |
| OSHA Z-1 / TWA                |   | 8-hour time weighted average   |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -

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Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration. Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;

| For Copy of SDS              | : | Internet: lubricants.petro-canada.com/sds<br>United States, telephone: 1-800-268-5850; fax: 1-800-201-<br>6285<br>For Product Safety Information: 1 905-491-0565 |
|------------------------------|---|--|
| Prepared by                  | : | Product Safety: +1 905-491-0565  |
| Revision Date<br>Date format | : | 2022/08/15<br>yyyy/mm/dd   |

vPvB - Very Persistent and Very Bioaccumulative

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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 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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