

000003000485

|--|

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

1.1 Product identifier

Product name	TURBOFLO TM/MC R&O 22
Product code	TFRO22P20, TFRO22DRM, TFRO22DCT, TFRO22, TFRO22BLK

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

Use of the Sub- stance/Mixture	: Turboflo R&O are fluids formulated to have long service life and provide corrosion and oxidation resistance in a wide range of applications. Primarily recommended as circulating oil for various industrial machinery. Turboflo R&O 10 and 22 are also suitable for use as spindle oils.
	are also suitable for use as spinule oils.

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

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)

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.



TURBOFLO ^{™/MC} R&O 22

000003000485

Version 3.2

Revision Date 02.10.2023

Print Date 02.10.2023

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



Signal word

Danger

t

Hazard statements : H304 May be fatal if swallowed and enters airways.

Precautionary statements

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

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

Hazardous components which must be listed on the label: Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Lubricating oils (petroleum), C15-	72623-86-0	Asp. Tox. 1; H304	90 - 100
30, hydrotreated neutral oil-based;	276-737-9		
Baseoil — unspecified	649-482-00-X		
	01-2119474878-16-		
	0001		

For explanation of abbreviations see section 16.



000003000485

Version 3.2	Revision Date 02.10.2023	Print Date 02.10.2023

SECTION 4: First aid measures

4.1 Description of first aid measures

	1.62	
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. 	
4.2 Most important symptoms and effects, both acute and delayed		
Risks	: First aider needs to protect himself.	
	May be fatal if swallowed and enters airways.	
4.3 Indication of any immediate r	nedical attention and special treatment needed	
Treatment	: Treat symptomatically.	
SECTION 5: Firefighting measures		
E 4 Futinguishing modia		
5.1 Extinguishing media		
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.	
Unsuitable extinguishing media	: No information available.	
5.2 Special hazards arising from the substance or mixture		

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



000003000485

Version 3.2		Revision Date 02.10.2023	Print Date 02.10.2023
Hazardous combustion prod- ucts	:	Carbon oxides (CO, CO2), smoke and irrita products of incomplete combustion.	ting vapours as
5.3 Advice for firefighters			
Further information	:	Prevent fire extinguishing water from contain water or the ground water system.	ninating surface

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
	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 envi-
		ronment.
		If the product contaminates rivers and lakes or drains inform
		respective authorities.

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.
	Ensure adequate ventilation.
	Contact the proper local authorities.

6.4 Reference to other sections

For personal protection see section 8.

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. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition.



Version 3.2 Revi		Revision Date 02.10.2023	Print Date 02.10.2023
		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, includ- ing the inside, before re-use. Wash face, hands and any ex- posed skin thoroughly after handling.		
7.2 Conditions for safe storage,	inc	luding 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.		event leakage. e. Keep in properly
7.3 Specific end use(s) Specific use(s)	:	No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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 concen- tration and amount of dangerous substances, and to the spe- cific work-place.
	Respiratory protection	:	Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated
er	net: lubricants.petro-canada.com/so	ds	Page: 5 /



000003000485

Version 3.2		Revision Date 02.10.2023	Print Date 02.10.2023	
			exposure levels, the hazards of the product and the safe work ing limits of the selected respirator.	
Filter type		:	organic vapour filter	
Protective measures		:	Wash contaminated clothing before re-us	Se.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Physical state	:	viscous liquid
	Colour	:	Pale, straw-yellow.
	Odour	:	Mild petroleum oil like.
	Odour Threshold	:	No data available
	Pour point	:	-39 °C
	Boiling point/boiling range	:	No data available
	Flash point	:	204 °C Method: Cleveland open cup
	Fire Point	:	222 °C
	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
	Vapour pressure	:	No data available
	Relative vapour density	:	No data available
	Relative density	:	No data available
e	rnet: lubricants.petro-canada.com/so	ds	



000003000485

Version 3.2	Revision Date 02.10.2023	Print Date 02.10.2023
Density :	0.8619 kg/l (15 °C)	
Solubility(ies) Water solubility :	insoluble	
Partition coefficient: n- : octanol/water	No data available	
Viscosity Viscosity, kinematic :	19.8 cSt (40 °C) 4.3 cSt (100 °C)	
Flammability :	Low fire hazard. This material must be heawill occur.	ated before ignition
Explosive properties :	Do not pressurize, cut, weld, braze, solder pose containers to heat or sources of ignit	

9.2 Other information

No data available

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. Stable under normal conditions. 10.4 Conditions to avoid No data available

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

Hazardous decomposition	:	May release COx, methacrylate monomers, smoke and irritat-
products		ing vapours when heated to decomposition.



000003000485

Version 3.2

Revision Date 02.10.2023

Print Date 02.10.2023

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Eye contact exposure 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:

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

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

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks : No data available

Serious eye damage/eye irritation

Not classified due to lack of data.

Product:

Remarks : No data available

Respiratory or skin sensitisation

Skin sensitisation: Not classified due to lack of data. Respiratory sensitisation: Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.



000003000485

Version 3.2	Revision Date 02.10.2023	Print Date 02.10.2023
Carcinogenicity		
Not classified due to lack of dat <u>Product:</u>	а.	
Remarks	: All components listed in Annex VI to and contained in the product, have to less than 3% DMSO extractables as	been shown to contain
Reproductive toxicity		
Not classified due to lack of dat	a.	
STOT - single exposure Not classified due to lack of dat	a.	

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Aspiration toxicity

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

<u>Product:</u> 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:Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil —fied:Toxicity to fish:NOEC (Fish): > 100 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	NOEC (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h	

Toxicity to algae/aquatic	:	NOEC (algae): > 100 mg/l
plants		Exposure time: 72 h



000003000485

Version 3.2	Revision Date 02.10.2023	Print Date 02.10.2023	
12.2 Persistence and degradabilit	tv		
-	· /		
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 as	sessment		
Product:			
Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6 Other adverse effects			
No data available			
SECTION 13: Disposal consid	erations		
13.1 Waste treatment methods			
Product	: The product should not be allowed to courses or the soil.	enter drains, water	
	Offer surplus and non-recyclable solution	tions to a licensed dis-	

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. 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					
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.2 UN proper shipping name					
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			

14.3 Transport hazard class(es)

Internet: lubricants.petro-canada.com/sds Trademarks are owned or used under license.



000003000485

Version 3.2	Revision Date 02.10.2023	Print Date 02.10.2023				
IMDG	Not regulated as a dangerous good					
ΙΑΤΑ	Not regulated as a dangerous good					
14.4 Packing group						
IMDG	Not regulated as a dangerous good					
IATA (Cargo)	Not regulated as a dangerous good					
IATA (Passenger)	Not regulated as a dangerous good					
14.5 Environmental hazards Not regulated as a dangerous g	ood					
14.6 Special precautions for user Not applicable						
14.7 Maritime transport in bulk according to IMO instruments						
Remarks	ADR: Not Regulated ADN: Not Regulated RID: Not Regulated					
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 Brit- ain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete 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	
е	met: lubricants petro-canada com/s	sh	Page: 11	



TURBOFLO ^{™/MC} R&O 22

000003000485

Version 3.2

Revision Date 02.10.2023

Print Date 02.10.2023

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

H304

May be fatal if swallowed and enters airways.

Full text of other abbreviations

Asp. Tox. : Aspiration hazard

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: lubricants.petro-canada.com/sds Order Email for packed goods: pcepackage@hfsinclair.com Order Email for bulk: pceorders@hfsinclair.com Telephone: +31 88313 0365 / +31 88313 0366



000003000485			
Version 3.2	Revision Dat	e 02.10.2023	Print Date 02.10.2023
	For Product S	Safety Information: 1 90	05-491-0565
Prepared by	: Product Safet	y: +1 905-491-0565	
Classification of the	e mixture:	Classifica	ation procedure:
Asp. Tox. 1	H304	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 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.

GB / EN