TURBOFLO TM/MC EP 46

## 000003000424

Version 3.0

Revision Date 2022/05/30



Print	Date	2022/05/30	
	Duio	2022,00,00	

## **SECTION 1. IDENTIFICATION**

Product name	TURBOFLO TM/MC EP 46
Product code	TFEP46DCT, TFEP46IBC, TFEP46DRM, TFEP46, TFEP46BLK
Manufacturer or supplier's de	
	Petro-Canada America Lubricants LLC 2828 N. Harwood St., Suite 1300
	Dallas TX 75201
Telephone	United States 1-214-871-3555
Emergency telephone numbe	r
	CHEMTREC: 1-800-424-9300;
ber	Poison Control Centre: Consult local telephone directory for emergency number(s).
Recommended use of the che	mical and restrictions on use
Recommended use	Turboflo EP fluids are premium anti-wear lubricants designed for geared heavy duty turbines with common gear and bearing lubrication systems.
Prepared by	Product Safety: +1 905-491-0565

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accor 1910.1200)	rdan	ce with the OSHA Hazard Communication Standard (29 CFR
Reproductive toxicity	:	Category 2
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	Suspected of damaging fertility or the unborn child.
Precautionary statements	:	<ul> <li>Prevention:</li> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>Response:</li> <li>IF exposed or concerned: Get medical advice/ attention.</li> <li>Storage:</li> <li>Store locked up.</li> <li>Disposal:</li> </ul>

# TURBOFLO TM/MC EP 46

## 000003000424



000003000424		
Version 3.0	Revision Date 2022/05/30	Print Date 2022/05/30
	Dispose of contents/ container to an ap plant.	proved waste disposal
Other hazards		
None known.		
IARC	No component of this product present a or equal to 0.1% is identified as probabl firmed human carcinogen by IARC.	5
OSHA	No component of this product present a equal to 0.1% is on OSHA's list of regul	
NTP	No component of this product present a equal to 0.1% is identified as a known o by NTP.	5

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

: Mixture Substance / Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Lubricating oils (petroleum), C20-50, hy- drotreated neutral oil-based; Baseoil — unspecified	72623-87-1	70 - 90
Lubricating oils (petroleum), C20-50, hy- drotreated neutral oil-based, high- viscosity; Baseoil — unspecified	72623-85-9	20 - 30
Phenol, isopropylated, phosphate (3:1)	68937-41-7	0.1 - 1

Actual concentration is withheld as a trade secret

#### **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	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.</li> <li>Wash skin thoroughly with soap and water or use recognized 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, for at least 15 minutes.</li> <li>Obtain medical attention.</li> </ul>
If swallowed	: Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physi-

# TURBOFLO TM/MC EP 46

## 000003000424



Version 3.0		Revision Date 2022/05/30	Print Date 2022/05/30
		cian or poison control center. Never give anything by mouth to a Seek medical advice.	an unconscious person.
Most important symptoms and effects, both acute and delayed	:	First aider needs to protect himse	lf.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances 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 prod- ucts	:	Carbon oxides (CO, CO2), 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, protec- tive equipment and emer- gency procedures	:	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.
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 protection against : fire and explosion	None known.
Advice on safe handling :	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. In case of insufficient ventilation, wear suitable respiratory
ernet: lubricants.petro-canada.com/sds	Page: 3 / 11

# TURBOFLO TM/MC EP 46

## 000003000424



Version 3.0	Revision Date 2022/05/30	Print Date 2022/05/30
Conditions for safe storage :	equipment. Avoid contact with skin, eyes and c Do not ingest. Keep away from heat and sources o Keep container closed when not in Store in original container. Containers which are opened must kept upright to prevent leakage. Keep in a dry, cool and well-ventilat Keep in properly labelled containers To maintain product quality, do not light.	of ignition. use. be carefully resealed and ted place. s.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspeci- fied	72623-87-1	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		STEL (Mist)	10 mg/m3	NIOSH REL
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity; Baseoil — unspecified	72623-85-9	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		STEL (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 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

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# TURBOFLO TM/MC EP 46



### 000003000424

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0000000424			
Version 3.0		Revision Date 2022/05/30	Print Date 2022/05/30
Hand protection Material	:	neoprene, nitrile, polyvinyl alcohol	(PVA), Viton <sup>®</sup> .
Remarks	:	: Chemical-resistant, impervious gloves complying with approved standard must be worn unless a risk assess indicates that this is not necessary.	
Eye protection	:	Wear face-shield and protective su	ıit.
Skin and body protection	:	Choose body protection in relation tration and amount of dangerous s cific work-place. Suitable protective clothing should	ubstances, and to the spe-
Protective measures	:	Wash contaminated clothing befor	e re-use.
Hygiene measures	:	Remove and wash contaminated of ing the inside, before re-use. Wash face, hands and any expose 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 Boiling point/boiling range	:	-30 °C (-22 °F) No data available
Flash point	:	237 °C (459 °F) Method: Cleveland open cup
Fire Point	:	253 °C (487 °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 flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Internet: lubricants.petro-canada.com/s Trademarks are owned or used under license.	sds	Page: 5 / 11 Petro-Canada Lubricants is a HF Sinclair brand

# TURBOFLO TM/MC EP 46

## 000003000424

PETRO-CANAD	

Version 3.0	Revision Date 2022/05/30	Print Date 2022/05/30
Vapour pressure	No data available	
Relative vapour density	No data available	
Relative density	No data available	
Density	: 0.8691 kg/l (15 °C / 59 °F)	
Solubility(ies)		
Water solubility	insoluble	
Partition coefficient: n- octanol/water	No data available	
Viscosity		
Viscosity, kinematic	: 46.4 cSt (40 °C / 104 °F)	
	6.8 cSt (100 °C / 212 °F)	
Explosive properties	Do not pressurize, cut, weld, braze, s pose containers to heat or sources o	

## SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reac- tions	:	Hazardous polymerisation does not occur. Stable under normal conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	Reactive with oxidising agents, acids, alkalis and reducing agents.
Hazardous decomposition products	:	May release COx, NOx, SOx, methacrylate monomers, phe- nols, smoke and irritating vapours when heated to decomposi- tion.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

Eye contact Ingestion Inhalation

Skin contact		
Acute toxicity		
Product: Acute oral toxicity	Remarks: No data available	
Acute inhalation toxicity	Assessment: The substance or mixture ion toxicity Remarks: No data available	has no acute inhala-
Acute dermal toxicity	Assessment: The substance or mixture coxicity	has no acute dermal

TURBOFLO <sup>™/MC</sup> EP 46

## 000003000424

PETROCANADA

Version 3.0

Revision Date 2022/05/30

Print Date 2022/05/30

Remarks: No data available

Components:		20-50, hydrotreated neutral oil-based; Baseoil — unspeci-
fied: Acute oral toxicity		LD50 (Rat): $> 5,000 \text{ mg/kg}$ ,
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,
	n), C	20-50, hydrotreated neutral oil-based, high-viscosity;
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		
<u>Product:</u> Remarks	:	No data available
Serious eye damage/eye ir	ritati	on
<u>Product:</u> Remarks	:	No data available
Respiratory or skin sensit	isatio	on
No data available		
<b>Germ cell mutagenicity</b> No data available		
Carcinogenicity No data available		
<b>Reproductive toxicity</b> No data available		
<b>STOT - single exposure</b> No data available		
STOT - repeated exposure No data available		

# TURBOFLO <sup>™/MC</sup> EP 46

## 000003000424

Version 3.0



Print Date 2022/05/30

## 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/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Persistence and degradabili	ty	
Product:		
Biodegradability	:	Remarks: No data available
Bioaccumulative potential		
No data available		
Mobility in soil		
No data available		
Other adverse effects		
 No data available		
		ATIONS

#### 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> <li>Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.</li> </ul>

#### **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**

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TURBOFLO TM/MC EP 46

## 000003000424

Version 3.0

Revision Date 2022/05/30



Print Date 2022/05/30

## 49 CFR

Not regulated as a dangerous good

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

California Prop. 65 ethyl acrylate	This product contains chemical(s) known to the State of Cali- fornia to cause cancer. For more information go to www.P65Warnings.ca.gov. The chemicals include: 140-88-5
	ct are reported in the following inventories:
IECSC :	On the inventory, or in compliance with the inventory
:	The Environmental Protection Agency prohibits processing and distribution of this chemical/product for any use other than: (1) in hydraulic fluids either for the aviation industry or to meet military specifications for safety and performance where no alternative chemical is available that meets U.S. Depart- ment of Defense specification requirements, (2) lubricants and greases, (3) new or replacement parts for automotive and aerospace industry, and the distribution in commerce of those parts to which PIP (3:1) has been added, (4) as an intermedi- ate in a closed system to produce cyanoacrylate adhesives, (5) in specialized engine filters for locomotive and marine ap- plications, (6) in adhesives and sealants before January 6, 2025, after which use in adhesives and sealants is prohibited, (7) for the recycling of PIP (3:1) containing plastic provided no new PIP (3:1) is added during the recycling process, (8) in articles and products made from recycled PIP (3:1) containing plastic provided no new PIP (3:1) is added during the recy- cling process or to the articles and products made from recy- cled plastic, and (9) in photographic printing articles and PIP (3:1) containing photographic printing articles until January 1, 2022. In addition, all persons are prohibited from releasing PIP (3:1) to water during manufacturing, processing and dis- tribution in commerce, and must follow all existing regulations and best practices to prevent the release of PIP (3:1) to water during the commercial use of PIP (3:1).
:	The Environmental Protection Agency (EPA) has identified
	<ul> <li>these additional hazards, not identified under OSHA/GHS hazards:</li> <li>Skin corrosion</li> <li>Skin Irritation</li> <li>Serious Eye Damage</li> <li>Skin Sensitization</li> <li>Reproductive Toxicity</li> <li>Specific Target Organ Toxicity</li> </ul>

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

Further information

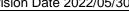
# TURBOFLO <sup>™/MC</sup> EP 46

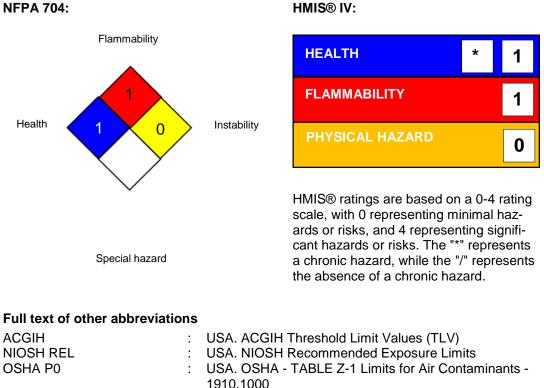
## 000003000424



Revision Date 2022/05/30

Version 3.0





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OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 L	_im-
	its 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 / STEL	: STEL - 15-minute TWA exposure that should not be excee	eded
	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 - 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

## TURBOFLO <sup>™/MC</sup> EP 46

### 000003000424

Version 3.0

Revision Date 2022/05/30

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; vPvB - Very Persistent and Very Bioaccumulative

For Copy of SDS	:	Internet: lubricants.petro-canada.com/sds United States, telephone: 1-800-268-5850; fax: 1-800-201- 6285 For Product Safety Information: 1 905-491-0565
Prepared by	:	Product Safety: +1 905-491-0565
Revision Date Date format	:	2022/05/30 yyyy/mm/dd

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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Print Date 2022/05/30