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

1.1 Product identifier

Product name	: PURITY ™ FG SYNTHETIC EP GEAR FLUID 460
Product code	: PFSN460DRX, PFSN460P20, PFSN460, PFSN460DRU

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 460 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

Telephone	Petro-Canada Europe Lubricants Limited 3rd Floor, 1 Ashley Road Altrincham Cheshire WA14 2DT United Kingdom : +44 (0) 121 781 7264	
E-mail address of person	: EUSDS@hfsinclair.com	

responsible for the SDS

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)

Not a hazardous substance or mixture.



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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)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

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		
alkylated diphenylamine		Repr. 2; H361	0.25 - 1
		Aquatic Chronic 3;	
		H412	
Benzenamine, N-phenyl-, reaction	68411-46-1	Aquatic Chronic 3;	0.1 - 0.25
products with 2,4,4-	270-128-1	H412	
trimethylpentene		Repr. 2; H361f	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

	If inhaled :	Move to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.
	In case of skin contact :	In case of contact, immediately flush 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.
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If swallowed	:	Rinse mouth with water. DO NOT induce vomiting unless direction cian or poison control center. Never give anything by mouth to an u Seek medical advice.		
4.2 Most important symptoms an	nd e	effects, both acute and delayed		
Risks	:	First aider needs to protect himself.		
4.3 Indication of any immediate r	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 cumstances and the surrounding env		
Unsuitable extinguishing media	:	No information available.		
5.2 Special hazards arising from the substance or mixture				
Specific hazards during fire- fighting	:		e with water spray.	
Hazardous combustion prod- ucts	:	Carbon oxides (CO, CO2), silicon oxi irritating vapours as products of incor		
5.3 Advice for firefighters				
Further information	:	Prevent fire extinguishing water from water or the ground water system.	contaminating 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. Only qualified personnel equipped with suitable protective equipment may intervene.
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6.2 Environmental precautions		
Environmental precautions	: Do not allow uncontrolled discharge ronment.	of product into the envi-
6.3 Methods and material for cont	ainment and cleaning up	
Methods for cleaning up	 Prevent further leakage or spillage if Remove all sources of ignition. Soak up with inert absorbent materia 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

		5	
	Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication 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. 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, includ- ing the inside, before re-use. Wash face, hands and any ex- posed skin thoroughly after handling.
7.2	Conditions for safe storage,	incl	uding 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)	:	No data available



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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 nec- essary.
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 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-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	colourless
Odour	:	mild



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Odour Threshold	:	No data available	
Pour point	:	-42 °C	
Boiling point/boiling range	:	No data available	
Flash point	:	253 °C Method: Cleveland open cup	
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	
Vapour pressure	:	No data available	
Relative vapour density	:	No data available	
Relative density	:	No data available	
Density	:	0.8524 kg/l (15 °C)	
Solubility(ies) Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Viscosity Viscosity, kinematic	:	446 cSt (40 °C)	
		43.5 cSt (100 °C)	
Flammability	:	Low fire hazard. This material must be hea will occur.	ted before ignition



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Explosive properties	: Do not pressurize, cut, v pose containers to heat	veld, braze, solder, drill, grind or ex- or sources of ignition.
9.2 Other information		
No data available		
SECTION 10: Stability and rea	tivity	
10.1 Reactivity		
No dangerous reaction knowr	inder conditions of normal us	se.
10.2 Chemical stability		
Stable under normal condition		
10.3 Possibility of hazardous rea	tions	
Hazardous reactions	: Hazardous polymerisation mal conditions.	on does not occur.Stable under nor-
10.4 Conditions to avoid		
Conditions to avoid	: No data available	
10.5 Incompatible materials		
Materials to avoid	: Reactive with oxidising a	agents, acids and alkalis.
10.6 Hazardous decomposition	oducts	
Hazardous decomposition products		SOx, POx, formaldehyde, smoke and neated to decomposition.

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



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

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aquatic invertebrates



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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 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 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. 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

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14.3 Transport hazard class	(es)	
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 dange	rous good	
14.6 Special precautions for Not applicable	user	
14.7 Maritime transport in b	Ik according to IMO instruments	
Remarks	: ADR: Not Regulated ADN: Not Regulated RID: Not Regulated	

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 (EC) No 1005/2009 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.



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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

Full text of other abbreviations					
12	:	Harmful to aquatic life with long lasting effects.			
61f	:	Suspected of damaging fertility.			
61	:	Suspected of damaging fertility or the unborn child.			

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Repr.	:	Reproductive toxicity

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



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Prepared by	: Pro	duct Safety: +1 905-491-0565		

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