

Material Safety Data Sheet

PURITY^{TM/MC} FG SPRAY

000003001253

Version 2.0

Revision Date 2014/12/18

Print Date 2014/12/19



SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PURITY^{TM/MC} FG SPRAY

Synonyms : Purity FG MF Lubricant

Product code : PFMF, PFMFA12

Manufacturer or supplier's details

Petro-Canada Lubricants Inc.
2310 Lakeshore Road West
Mississauga ON L5J 1K2
Canada

Emergency telephone number : Suncor Energy: +1 403-296-3000;
Poison Control Centre: Consult local telephone directory for emergency number(s).

Recommended use of the chemical and restrictions on use

Recommended use : Purity FG Spray is an advanced multipurpose food grade lubricant in an aerosol can.

NSF H1 Registered.

All components comply 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.

Prepared by : Product Safety: +1 905-804-4752

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING	
Appearance	Aerosol, stored under pressure.
Colour	Purity FG Lubricant is clear and bright.
Odour	Hydrocarbon or petroleum oil like.
Hazard Summary	High pressure gas. Flammable aerosol.

Potential Health Effects

Primary Routes of Entry : Eye contact
Inhalation
Skin contact

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- Inhalation : At high concentrations, the propellant is a simple asphyxiant and displaces oxygen from the breathing atmosphere. Lack of oxygen may cause CNS depression characterized by dizziness, headaches, nausea, vomiting, fatigue, light-headedness and reduced coordination. Severe overexposure may lead to a coma and/or possible death. Prolonged or repeated inhalation of mist or vapours may cause irritation of the respiratory tract.
- Skin : May cause skin irritation.
- Eyes : May cause eye irritation.
- Ingestion : No known significant effects or critical hazards.
- Aggravated Medical Condition : None known.

Carcinogenicity:

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.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
petroleum gases, liquefied, sweetened	68476-86-8	25 %
propane	74-98-6	10 - 20 %
isobutane	75-28-5	5 - 10 %

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 : In case of contact, immediately flush eyes or 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

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skin cleanser.
Wash contaminated 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.
- Most important symptoms
and effects, both acute and
delayed : First aider needs to protect himself.
-

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical
Carbon dioxide (CO₂)
Foam
Water fog.
Water spray
- Unsuitable extinguishing
media : No information available.
- Specific hazards during
firefighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion
products : Carbon oxides (CO, CO₂), nitrogen oxides (NO_x), sulphur
oxides (SO_x), phosphorus oxides (PO_x), carbonyl halides,
smoke and irritating vapours as products of incomplete
combustion.
- Further information : Prevent fire extinguishing water from contaminating surface
water or the ground water system.
- Special protective equipment
for firefighters : Wear self-contained breathing apparatus and full protective
wear.
Wear a positive-pressure supplied-air respirator with full
facepiece.
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions,
protective equipment and
emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform
respective authorities.

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Methods and materials for containment and cleaning up : Prevent further leakage or spillage if safe to do so.
Use explosion-proof ventilation equipment.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Remove all sources of ignition.
Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.
Use only with adequate ventilation.
Smoking, eating and drinking should be prohibited in the application area.
Avoid contact with skin, eyes and clothing.
Do not ingest.
Do not breathe vapours or spray mist.
Use explosion-proof equipment.
Wear suitable protective equipment.

Conditions for safe storage : 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m ³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV (Mist)	5 mg/m ³	CA QC OEL
		STEV (Mist)	10 mg/m ³	CA QC OEL
		TWA (Mist)	1 mg/m ³	CA BC OEL
		TWA (Inhalable fraction)	5 mg/m ³	ACGIH
propane	74-98-6	TWA	1,000 ppm	CA AB OEL
		TWA	1,000 ppm	CA BC OEL
		TWAEV	1,000 ppm 1,800 mg/m ³	CA QC OEL
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m ³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL

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		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Inhalable fraction)	5 mg/m3	ACGIH

Engineering measures : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.
Use explosion-proof ventilation equipment.

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

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

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 if splashing hazard is likely.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures : Wash contaminated clothing before re-use.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aerosol, stored under pressure.

Colour : Purity FG Lubricant is clear and bright.

Odour : Hydrocarbon or petroleum oil like.

Odour Threshold : No data available

pH : No data available

Pour point : -12 °C (10 °F)Purity FG Lubricant:

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Boiling point	:	No data available
Flash point	:	-104 °C (-156 °F) Propellant:
Fire Point	:	No data available
Auto-Ignition Temperature	:	No data available
Evaporation rate	:	No data available
Flammability	:	Propellant is a flammable gas. Extremely flammable in presence of open flames, sparks, and heat. Vapours are heavier than air and may travel considerable distance to sources of ignition and flash back.
Upper explosion limit	:	9.5 %(V) Propellant:
Lower explosion limit	:	1.8 %(V) Propellant:
Vapour pressure	:	No data available
Density	:	0.862 kg/l (15 °C / 59 °F) Purity FG Lubricant:
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Viscosity		
Viscosity, kinematic	:	151 cSt (40 °C / 104 °F) Purity FG Lubricant: 19.8 cSt (100 °C / 212 °F) Purity FG Lubricant:
Explosive properties	:	Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Container explosion may occur under fire conditions or when heated. Ruptured cylinders may rocket.

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Hazardous polymerisation does not occur. Stable under normal conditions.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Reactive with oxidising agents, reducing agents, acids, alkalis, liquid oxygen and alkali metals and their hydroxides.
Hazardous decomposition products	:	May release CO _x , NO _x , SO _x , PO _x , carbonyl halides, smoke and irritating vapours when heated to decomposition.

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SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Components:

isobutane:

Acute inhalation toxicity : LC50 Rat: 658,000 mg/m3
Exposure time: 4 h
Test atmosphere: gas

Skin corrosion/irritation

Product:

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Remarks: There is no data available for this product.

Respiratory or skin sensitisation

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

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Aspiration toxicity

No data available

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 : Remarks: No data available

Toxicity to bacteria : Remarks: No data available

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Components:

isobutane :

Partition coefficient: n-octanol/water : log Pow: 2.76

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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 as hazardous waste in compliance with local and national regulations.
Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

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SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. : 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
Packing group : Not Assigned
Labels : 2.1
Packing instruction (cargo aircraft) : 203

IMDG-Code

UN number : 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not Assigned
Labels : 2.1
EmS Code : F-D, S-U
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

TDG

UN number : 1950
Proper shipping name : AEROSOLS, LTD. QTY.
Class : 2.1
Packing group : Not Assigned
Labels : 2.1
ERG Code : 126
Marine pollutant : no

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : A: Compressed Gas
B5: Flammable aerosol

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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
EINECS

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

SECTION 16. OTHER INFORMATION

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.