



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

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

1.1 Product identifier

Product name : PURITY^{TM/MC} FG SPRAY
Synonyms : Purity FG MF Lubricant
Product code : PFMF, PFMFA12

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

Use of the Substance/Mixture : 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.

1.3 Details of the supplier of the safety data sheet

Manufacturer or supplier's details
Petro-Canada Europe Lubricants Limited
Wellington House, Starley Way
Birmingham International Park Solihull B37 7HB
United Kingdom
E-mail address of person responsible for the SDS : EUSDS@suncor.com

1.4 Emergency telephone number

Emergency telephone number : Suncor Energy: +1 403-296-3000;
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)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

SAFETY DATA SHEET
 according to Regulation (EC) No. 1907/2006
PURITY™/MC FG SPRAY



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

Classification (67/548/EEC, 1999/45/EC)

Extremely flammable

R12: Extremely flammable.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.

Precautionary statements : **Prevention:**
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
Storage:
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:
 petroleum gases, liquefied, sweetened

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
petroleum gases, liquefied, sweetened	68476-86-8	F+; R12	Flam. Gas, Press. Gas 1, Liquefied gas; H220, H280	25
	270-705-8			
propane	74-98-6	F+; R12		10 - 20



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

	200-827-9			
isobutane	75-28-5			5 - 10
	200-857-2			

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 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 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.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : First aider needs to protect himself.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry chemical
Carbon dioxide (CO2)
Foam
Water fog.
Water spray

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PURITY^{TM/MC} FG SPRAY



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

Unsuitable extinguishing media : No information available.

5.2 Special hazards arising from the substance or mixture

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.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus and full protective wear. Wear a positive-pressure supplied-air respirator with full facepiece.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

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.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.

6.2 Environmental precautions

Environmental precautions : 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.
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.

000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

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.
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.
- Advice on protection against fire and explosion : None known. Keep away from heat and sources of ignition.
- 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.

7.2 Conditions for safe storage, including 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)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

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

Personal protective equipment

Eye protection : Wear face-shield if splashing hazard is likely.

Hand protection

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PURITY^{TM/MC} FG SPRAY



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

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 concentration and amount of dangerous substances, and to the specific work-place.
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
Protective measures	: Wash contaminated clothing before re-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Aerosol containing a liquefied gas
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:
Boiling point	: No data available
Flash point	: -104 °C (-155 °F) Remarks: Propellant:
Fire Point	: No data available
Auto-Ignition Temperature	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol. 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:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PURITY™/MC FG SPRAY



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

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.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.
Stable under normal conditions.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

Hazardous decomposition products : May release COx, NOx, SOx, POx, carbonyl halides, smoke and irritating vapours when heated to decomposition.



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Components:

isobutane

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

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
PURITY^{TM/MC} FG SPRAY



000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

Additional ecological information : Remarks: 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 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.

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, LIMITED QUANTITY
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.

Special precautions for user

Not applicable

000003001253

Version 3.0

Revision Date 2015/06/08

Print Date 2015/06/08

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water contaminating class : WGK 1 slightly water endangering
(Germany)

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

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

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of R-Phrases

R12 : Extremely flammable.

Full text of H-Statements

H220 : Extremely flammable gas.
H280 : Contains gas under pressure; may explode if heated.

Full text of other abbreviations

Flam. Gas : Flammable gases
Press. Gas : Gases under pressure

For Copy of (M)SDS : Internet: lubricants.petro-canada.ca/msds
Europe, telephone: 00-800-7387-6000
For Product Safety Information: 1 905-804-4752

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

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.

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
PURITY^{TM/MC} FG SPRAY



000003001253

Version 3.0

Revision Date 2015/06/08

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