

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

### **1.1 Product identifier**

Product name : PURITY<sup>TM/MC</sup> FG SPRAY

Synonyms : Purity FG MF Lubricant

Product code : PFMF, PFMFA12

Unique Formula Identifier (UFI) : 5XX3-DNQV-980H-QT4D

### **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

HollyFrontier LSP Europe BV  
Mainhavenweg 6  
1043 AL Amsterdam  
The Netherlands

Telephone : +31 (0)85 4000080

E-mail address of person responsible for the SDS : EUSDS@hfsinclair.com

### **1.4 Emergency telephone number**

Emergency telephone number : CHEMTREC: +1-703-741-5970;  
Poison Control Centre: Consult local telephone directory for emergency number(s).  
Please refer to Section 15 for the European Poison Center Phone Numbers.

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## **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.

## 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.

## 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
propane	74-98-6  200-827-9 601-003-00-5	Flam. Gas 1; H220 Press. Gas Compr. Gas;	10 - 20
isobutane	75-28-5  200-857-2 601-004-00-0	Flam. Gas 1; H220 Press. Gas Compr. Gas;	5 - 10

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.

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- 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 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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Alcohol-resistant foam  
Water spray  
Water fog

- Unsuitable extinguishing media : Do NOT use water jet.

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : If the product release cannot be shut off safely, allow the product to burn itself out.  
Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : Carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), sulphur oxides (SO<sub>x</sub>), phosphorus oxides (PO<sub>x</sub>), 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.

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## 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.  
Remove all sources of ignition.  
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.

### 6.4 Reference to other sections

For personal protection see section 8.

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## 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 : 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)

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## 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 and protective suit for abnormal processing problems.

Hand protection  
Material : neoprene, nitrile. Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

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.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	:	Aerosol containing a liquefied gas
Colour	:	Purity FG Lubricant is clear and bright.
Odour	:	Hydrocarbon or petroleum oil like.
Odour Threshold	:	No data available
Pour point	:	-12 °C Purity FG Lubricant:
Boiling point	:	No data available
Flash point	:	-156 °C Propellant:
Fire Point	:	No data available
Auto-Ignition Temperature	:	No data available
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	9.5 %(V) Propellant:
Lower explosion limit / Lower flammability limit	:	1.8 %(V) Propellant:
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.862 kg/l (15 °C) Purity FG Lubricant:
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Viscosity Viscosity, kinematic	:	151 cSt (40 °C) Purity FG Lubricant:  19.8 cSt (100 °C) Purity FG Lubricant:

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- |                      |   |  |
|----------------------|---|--|
| Flammability         | : | 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. |
| 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 CO <sub>x</sub> , NO <sub>x</sub> , SO <sub>x</sub> , PO <sub>x</sub> , carbonyl halides, smoke and irritating vapours when heated to decomposition. |
|----------------------------------|---|--|

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- |  |   |   |
|--|---|---|
| Information on likely routes of exposure | : | Eye contact<br>Inhalation<br>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 |

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### Components:

#### **isobutane:**

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

### **Skin corrosion/irritation**

#### Product:

Remarks : No data available

### **Serious eye damage/eye irritation**

#### Product:

Remarks : No data available

### **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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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other : Remarks: No data available  
aquatic invertebrates

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

Toxicity to microorganisms :  
Remarks: No data available



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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

Not relevant

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data available

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## 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.

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## SECTION 14: Transport information

### International Regulations

#### IATA-DGR

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

#### IMDG-Code

UN number : UN 1950  
Proper shipping name : AEROSOLS LIMITED QUANTITY  
  
Class : 2.1  
Packing group : Not assigned by regulation

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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

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Remarks : ADR: UN1950, AEROSOLS, 2.1  
ADN: UN1950, AEROSOLS, 2.1  
RID: UN1950, AEROSOLS, 2.1

## SECTION 15: Regulatory information

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

Water hazard class (Germany) : WGK 1 slightly hazardous to water

#### 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.

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

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

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

: HSNO: HSR002605, Lubricants (Low Hazard) Group Standard 2020

: **European Poison Center Phone Numbers**

: Belgium - 070 245 245

: Bulgaria - +359 2 9154 233

: Czech Republic - +420 224 919 293

: Denmark - 82 12 12 12

: Estonia - 16662

: Finland - 09 471 977

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- : France - + 33 (0) 1 45 42 59 59
- : Greece - (0030) 2107793777
- : Ireland - 01 809 2166
- : Italy -
  - Rome: 06 68593726
  - Foggia: 800183459
  - Naples: 081-5453333
  - Rome: 06-49978000
  - Rome: 06-3054343
  - Florence: 055-7947819
  - Pavia: 0382-24444
  - Milan: 02-66101029
  - Bergamo: 800883300
  - Verona: 800011858
- : Latvia - +371 67042473
- : Lithuania - +370 687 533 78
- : Netherlands - +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in case of acute intoxications.)
- : Poland - +48 71 343 30 08
- : Romania - +402 212 106 282
- : Slovenia - +386 41 635 500
- : Spain - + 34 91 562 04 20

### 15.2 Chemical safety assessment

## SECTION 16: Other information

### Full text of H-Statements

H220 : Extremely flammable gas.

### Full text of other abbreviations

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

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 La-

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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](https://lubricants.petro-canada.com/sds)  
Europe, telephone: 00-800-7387-6000  
For Product Safety Information: 1 905-491-0565

Prepared by

: Product Safety: +1 905-491-0565

### Classification of the mixture:

Aerosol 1

H222, H229

### Classification procedure:

Based on product data or assessment

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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