

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## PURITY™ FG2 WITH MICROL™ MAX SPRAY



000003000280

Version 2.0

Revision Date 2015/04/27

Print Date 2015/04/28

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

#### 1.1 Product identifier

Product name : PURITY™ FG2 WITH MICROL™ MAX SPRAY  
Product code : PFGMICMB12

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

Use of the Substance/Mixture : Aerosol spray lubricant.  
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).

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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.
Skin irritation, Category 2	H315: Causes skin irritation.
Specific target organ toxicity - single	H336: May cause drowsiness or dizziness.

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exposure, Category 3, Central nervous system

Specific target organ toxicity - single exposure, Category 3, Respiratory system

Chronic aquatic toxicity, Category 2

Aspiration hazard, Category 1

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

H304: May be fatal if swallowed and enters airways.

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

Extremely flammable

Irritant

Dangerous for the environment

R12: Extremely flammable.

R38: Irritating to skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

## 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.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

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.  
P280 Wear protective gloves/ protective clothing/

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	eye protection/ face protection.
P264	Wash hands thoroughly after handling.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
<b>Response:</b>	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P391	Collect spillage.
<b>Storage:</b>	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
<b>Disposal:</b>	
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Petroleum gases, liquefied

2-methylpentane

### Additional Labelling:

EUH208 May produce an allergic reaction.

Contains: chlorocresol

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No.	Classification	Classification	Concentration
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	EC-No. Registration number	(67/548/EEC)	(REGULATION (EC) No 1272/2008)	(%)
Petroleum gases, liquefied	68476-85-7	F+; F+; R12	Carc. 1B; Muta. 1B; Flam. Gas 1; Press. Gas Liquefied gas;	35 - 45
2-methylpentane	107-83-5 203-523-4	F; R11 Xn; R65 Xi; R38 R67 N; R51-R53	Skin irr/cor. 2; Asp. Tox. 1; Aquatic Chronic 2; STOT SE 3; Flam. Liq. 2;	25 - 35
thiodiethylene bis[3- (3,5-di-tert-butyl-4- hydroxyphenyl)propion ate]	41484-35-9 255-392-8	N; N; R51/53		0.1 - 0.5
chlorocresol	59-50-7 200-431-6	Xn; R21/22 Xi; R41 R43 N; R50	Skin Sens. 1; H317 Aquatic Acute 1; H400 Eye irr/damage 1; H318 Acute Tox. 4; H302 Acute Tox. 4; H312 Aquatic Chronic 1; H410	0.1 - 0.5

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.

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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.  
Obtain medical attention.

### 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

Treatment : No specific treatment.  
Treat symptomatically.  
For specialist advice physicians should contact the Poisons Information Service.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Water spray  
Water fog.  
Foam

Unsuitable extinguishing media : Do NOT use water jet.

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

Specific hazards during firefighting : 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>), 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.  
Keep people away from and upwind of spill/leak.  
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.  
Do not allow uncontrolled discharge of product into the environment.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Remove all sources of ignition.  
Prevent further leakage or spillage if safe to do so.  
Non-sparking tools should be used.  
Use explosion-proof ventilation equipment.  
Prevent entry into basements or confined areas.  
Soak up with inert absorbent material.  
Ensure adequate ventilation.  
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.  
Smoking, eating and drinking should be prohibited in the application area.  
Do not ingest.  
Avoid contact with skin, eyes and clothing.  
Use only with adequate ventilation.  
Keep away from heat and sources of ignition.  
Do not breathe vapours or spray mist.  
Use explosion-proof equipment.  
Take precautionary measures against static discharges.  
Empty containers retain product residue and can be

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hazardous.

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)

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Engineering measures

Use only in well-ventilated areas.

Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.

Use explosion-proof ventilation equipment.

#### Personal protective equipment

Eye protection : Safety glasses with side-shields  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material

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

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	concentration and amount of dangerous substances, and to the specific work-place.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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
Colour	: white
Odour	: Solvent.
Odour Threshold	: No data available
pH	: No data available
Pour point	: No data available
Initial boiling point and boiling range	: 66 °C (151 °F)
Flash point	: -7 °C (19 °F) Method: Tagliabue.
Fire Point	: 254 °C (489 °F)
Auto-Ignition Temperature	: No data available
Evaporation rate	: No data available
Flammability (solid, 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	: 7 %(V)
Lower explosion limit	: 1 %(V)
Vapour pressure	: No data available
Relative vapour density	: 1
Relative density	: 0.75



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Density	:	No data available
Solubility(ies)		
Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

### 9.2 Other information

No data available

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## 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 : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Reactive with oxidising agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : May release COx, smoke and irritating vapours when heated to decomposition.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

### Acute toxicity

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### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

### Components:

#### **thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:**

Acute oral toxicity : LD50 Rat: 6,300 mg/kg,

#### **chlorocresol:**

Acute oral toxicity : Acute toxicity estimate : 500 mg/kg,  
Method: Converted acute toxicity point estimate

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg,  
Method: Converted acute toxicity point estimate

### **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**

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No data available

### Aspiration toxicity

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 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

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

**Product:**

Additional ecological information : Remarks: 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.

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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, 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

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### SECTION 15: Regulatory information

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

##### The components of this product are reported in the following inventories:

DSL : ListedOn the inventory, or in compliance with the inventory

TSCA : ListedOn TSCA Inventory

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

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

### 15.2 Chemical Safety Assessment

#### SECTION 16: Other information

##### Full text of R-Phrases

- R11 : Highly flammable.
- R12 : Extremely flammable.
- R21/22 : Harmful in contact with skin and if swallowed.
- R38 : Irritating to skin.
- R41 : Risk of serious damage to eyes.
- R43 : May cause sensitisation by skin contact.
- R50 : Very toxic to aquatic organisms.
- R51 : Toxic to aquatic organisms.
- R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R53 : May cause long-term adverse effects in the aquatic environment.
- R65 : Harmful: may cause lung damage if swallowed.
- R67 : Vapours may cause drowsiness and dizziness.

##### Full text of H-Statements

- H302 : Harmful if swallowed.
- H312 : Harmful in contact with skin.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.

##### Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Aquatic Acute : Acute aquatic toxicity
- Aquatic Chronic : Chronic aquatic toxicity
- Asp. Tox. : Aspiration hazard
- Carc. : Carcinogenicity
- Eye irr/damage : Serious eye damage/eye irritation
- Flam. Gas : Flammable gases
- Flam. Liq. : Flammable liquids
- Muta. : Germ cell mutagenicity
- Press. Gas : Gases under pressure
- Skin irr/cor. : Skin corrosion/irritation
- Skin Sens. : Skin sensitisation
- STOT SE : Specific target organ toxicity - single exposure

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

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