# **Material Safety Data Sheet**

PURITY™ FG2 SYNTHETIC



## 1. Product and company identification

Common name : PURITY™ FG2 SYNTHETIC

**Code** : PFGSYN2, 650-112

Material uses : Purity FG2 Synthetic grease is a food grade 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.

Manufacturer : PETRO-CANADA

P.O. Box 2844

150 - 6th Avenue South-West

Calgary, Alberta

T2P 3E3

In case of emergency : Petro-Canada: 403-296-3000

**Canutec Transportation:** 

613-996-6666

Poison Control Centre: Consult local telephone directory for emergency number(s).

## 2. Hazards identification

Physical state : Semi-solid.

Odour : Mild petroleum oil like.

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and

available for employees and other users of this product.

**Emergency overview** : No specific hazard.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eyes : Slightly irritating to the eyes.

Skin : Slightly irritating to the skin.

Inhalation : No known significant effects or critical hazards.Ingestion : No known significant effects or critical hazards.

Medical conditions aggravated by overexposure  Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated skin exposure can produce local skin destruction or

dermatitis.

See toxicological information (section 11)

# 3. Composition/information on ingredients

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

## 4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin contact**: Wash skin thoroughly with soap and water or use recognised skin cleanser. Get medical attention if irritation occurs. Remove contaminated clothing and shoes. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get medical attention.

Continued on Next Page Internet: lubricants.petro-canada.ca/msds Page: 1/6

PURITY™ FG2 SYNTHETIC Page Number: 2

### 4. First-aid measures

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## 5. Fire-fighting measures

Flammability of the product

: May be combustible at high temperature.

**Products of combustion** 

: Carbon oxides (CO, CO2), nitrogen oxides (NOx), smoke and irritating vapours as products of incomplete combustion.

### **Extinguishing media**

**Suitable** 

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: No specific fire or explosion hazard.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special remarks on fire hazards

: Low fire hazard. This material must be heated before ignition will occur.

Special remarks on explosion hazards

: Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

## 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions** 

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

**Handling** 

: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles.

**Storage** 

Keep container tightly closed. Store away from incompatible materials (see section 10).
 Keep container in a cool, well-ventilated area.

Continued on Next Page

Internet: lubricants.petro-canada.ca/msds

Page: 2/6

PURITY™ FG2 SYNTHETIC Page Number: 3

#### **Exposure controls/personal protection** 8.

### Consult local authorities for acceptable exposure limits.

**Engineering measures** 

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### Personal protection

**Eyes** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists,

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory

: 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. Recommended: organic vapour filter

**Hands** 

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.

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

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Page: 3/6

#### Physical and chemical properties 9.

**Physical state** 

Semi-solid.

Flash point

Mineral Oil Blend:

Open cup: 252°C (485.6°F) [Cleveland.]

**Auto-ignition temperature** 

Mineral Oil Blend:

Fire Point: 286°C (546.8°F)

Flammable limits

Not available.

Colour

Cream.

**Odour** 

pН

Mild petroleum oil like.

**Boiling/condensation point** 

Not available. : Not available.

**Pour Point** 

Mineral Oil Blend: -63°C (-81°F)

Melting/freezing point

: Not available.

Mineral Oil Blend:

Relative density

0.832 kg/L @ 15°C (59°F)

Vapour pressure Vapour density Volatility

Not available. Not available. Not available.

**Odour threshold Evaporation rate**  Not available. Not available.

**Viscosity** 

Mineral Oil Blend: 45.8 cSt @ 40°C (104°F), 7.80 cSt @ 100°C (212°F), VI=140

**Solubility** : Insoluble in water. LogK<sub>ow</sub> : Not available.

Continued on Next Page Internet: lubricants.petro-canada.ca/msds PURITY™ FG2 SYNTHETIC Page Number: 4

# 9. Physical and chemical properties

Softening Point : Not available.

Dropping Point : 304°C (579°F)

Penetration : 294 (60 strokes)

Physical/chemical : Not available.

properties comments

## 10. Stability and reactivity

**Stability and reactivity**: The product is stable.

**Conditions of instability** : Not available.

**Incompatibility with various**: Reactive with oxidising agents, acids and alkalis.

substances

Hazardous decomposition

products

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

Hazardous polymerisation : Will not occur

## 11. Toxicological information

**Specific effects** 

Carcinogenic effects: Not listed as carcinogenic by OSHA, NTP or IARC.

Mutagenic effects: No known significant effects or critical hazards.

Teratogenicity /: No known significant effects or critical hazards.

Reproductive toxicity

**Sensitisation** 

Ingestion : No known significant effects or critical hazards.Inhalation : No known significant effects or critical hazards.

Eyes : Slightly irritating to the eyes.

Skin : Slightly irritating to the skin.

Synergistic products : Not available.

## 12. Ecological information

**Ecotoxicity data** 

Product/ingredient name Species Period Result

**Environmental precautions**: No known significant effects or critical hazards.

Bioconcentration factor

BOD and COD

Biodegradable/OECD

Mobility

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

products of biodegradation

# 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Continued on Next Page Internet: lubricants.petro-canada.ca/msds Page: 4/6

## 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		-
<b>DOT Classification</b>	Not regulated.	-	-	-		-

PG\* : Packing group

## 15. Regulatory information

**United States** 

**HCS Classification**: Not regulated.

**Canada** 

WHMIS (Canada) : Not controlled under WHMIS (Canada).

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

**EU regulations** 

**Risk phrases**: This product is not classified according to EU legislation.

International regulations

**International lists** 

Canada inventory status : Listed
EC INVENTORY (EINECS/ELINCS) : Listed
TSCA 8(b) inventory : Listed

## 16. Other information

Label requirements

: No specific hazard.

Hazardous Material Information System (U.S.A.)

Health1Fire hazard1Reactivity0Personal protectionB

National Fire Protection Association (U.S.A.)



**References** : Available upon request.

TM/MC Marque de commerce de Petro-Canada - Trademark

 Date of printing
 : 4/29/2008.

 Date of issue
 : 4/29/2008.

Date of previous issue : No previous validation.

Responsible name : Product Safety - JDW

PURITY™ FG2 SYNTHETIC Page Number: 6

### 16. Other information

### Version

For Copy of (M)SDS

: 1

: The Canadian Controlled Products Regulations (CPR) (Under the Hazardous Products Act, part of the WHMIS legislation) only apply to WHMIS Controlled (i.e., hazardous) products. Therefore, the CPR and the 3-year update rule specified therein do not apply to WHMIS Non-Controlled products. Although this is true, customarily Petro-Canada reviews and updates Non-Controlled product MSDS if a customer requests such an update. These Non-Controlled product updates are given a lower priority than Controlled products but are handled as soon as practicable. If you would like to verify if the MSDS you have is the most current, or you require any further information, please contact:

Internet: lubricants.petro-canada.ca/msds

Lubricants:

Western Canada, telephone: 1-800-661-1199; fax: (780) 464-9564

Ontario & Central Canada, telephone: 1-800-268-5850 and (905) 822-4222; fax: 1-800-

201-6285

Quebec & Eastern Canada, telephone: 1-800-576-1686; fax: 1-800-201-6285

For Product Safety Information: (905) 804-4752

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Continued on Next Page

Internet: lubricants.petro-canada.ca/msds

Page: 6/6