

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**PURITY™/MC FG2 SYNTHETIC**



000003001183

Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

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

**1.1 Product identifier**

Product name : PURITY™/MC FG2 SYNTHETIC  
Product code : PFGSYN2AL2, PFGSYN2AL1, PFGSYN2P17,  
PFGSYN2KGL, PFGSYN2DRL, PFGSYN2, PFGSYN2C30

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

Use of the Substance/Mixture : 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.

**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,  
REACH Only Representative (OR):  
INTERTEK FRANCE  
Allée de la Fosse Moret  
Eco parc 2  
27400 Heudebouville  
France  
Phone number : +33 2 79 23 03 49  
Email address: if.reach@intertek.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).

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**SAFETY DATA SHEET**  
 according to Regulation (EC) No. 1907/2006  
**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



000003001183

Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**Additional Labelling**

**EUH208** Contains Sulfonic acids, petroleum, calcium salts, Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction.

**EUH210** Safety data sheet available on request.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9	Skin Sens. 1B; H317	1 - < 10
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6 271-529-4	Skin Sens. 1B; H317	1 - < 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7	Skin Sens. 1B; H317	1 - < 10
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Acute Tox. 4; H302 Aquatic Chronic 4; H413  specific concentration limit Eye Dam. 2 3 %	1 - < 2.5

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



000003001183

Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1 270-128-1	Aquatic Chronic 3; H412 Repr. 2; H361f	1 - < 2.5
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For explanation of abbreviations see section 16.

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## 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 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 the event of a known, or potential, high pressure injection injury, worker should obtain immediate medical evaluation.
- 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

- Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : No information available.

000003001183

Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

### 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, CO<sub>2</sub>), smoke and irritating vapours as products of incomplete combustion.

### 5.3 Advice for firefighters

- 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.  
Material can create slippery conditions.  
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 : Do not allow uncontrolled discharge of product into the environment.

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

- Methods for cleaning up : Prevent further leakage or spillage if safe to do so.  
Remove all sources of ignition.  
Soak up with inert absorbent material.  
Non-sparking tools should be used.  
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.  
Use only with adequate ventilation.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid contact with skin, eyes and clothing.  
Do not ingest.  
Keep away from heat and sources of ignition.

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



000003001183

Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

Keep container closed when not in use.

Advice on protection against fire and explosion : None known.

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)**

Specific use(s) : No data available

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls**

**Engineering measures**

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal protective equipment**

Eye/face protection : Wear face-shield and protective suit for abnormal processing problems.

Hand protection

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

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.

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



**000003001183**

Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

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 : Semi-solid.  
Colour : tan  
Odour : Mild petroleum oil like.  
Odour Threshold : No data available  
Pour point : -63 °C  
Base Fluid Blend  
Boiling point/boiling range : No data available  
Flash point : 252 °C  
Method: Cleveland open cup  
Base Fluid Blend  
Fire Point : 286 °C  
Base Fluid Blend  
Auto-Ignition Temperature : No data available  
Evaporation rate : No data available  
Upper explosion limit / Upper flammability limit : No data available  
Lower explosion limit / Lower flammability limit : No data available  
Vapour pressure : No data available  
Relative vapour density : No data available  
Relative density : No data available  
Density : 0.9568 kg/l (15 °C)  
Solubility(ies)  
Water solubility : insoluble  
Partition coefficient: n-octanol/water : No data available

Viscosity

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



**000003001183**

Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

Viscosity, kinematic	:	50 cSt (40 °C) Base Fluid Blend
		7.8 cSt (100 °C) Base Fluid Blend
Flammability	:	Low fire hazard. This material must be heated before ignition will occur.
Explosive properties	:	Do not pressurize, 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**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**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 : No data available

**10.5 Incompatible materials**

Materials to avoid : Reactive with oxidising agents.

**10.6 Hazardous decomposition products**

Hazardous decomposition products : May release CO<sub>x</sub>, SO<sub>x</sub>, CaO<sub>x</sub>, smoke and irritating vapours when heated to decomposition.

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**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  
Ingestion  
Inhalation  
Skin contact

**Acute toxicity**

**Product:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



**000003001183**

Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

Acute dermal toxicity : Remarks: No data available

**Skin corrosion/irritation**

**Product:**

Remarks : No data available

**Serious eye damage/eye irritation**

**Product:**

Remarks : No data available

Remarks : No data available

**Respiratory or skin sensitisation**

**Product:**

Result: Not a skin sensitizer.

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

**Product:**

Remarks : All components listed in Annex VI to which Note L applies, and contained in the product, have been shown to contain less than 3% DMSO extractables as measured by IP346.

**Reproductive toxicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



## 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/aquatic plants : Remarks: No data available

Toxicity to microorganisms : 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

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 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.

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



000003001183

Version 3.2

Revision Date 2023/03/31

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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 product residue in accordance with the instructions of the person responsible for waste disposal.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

### 14.2 UN proper shipping name

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

### 14.4 Packing group

**IMDG** : Not regulated as a dangerous good

**IATA (Cargo)** : Not regulated as a dangerous good

**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : ADR: Not Regulated  
ADN: Not Regulated  
RID: Not Regulated

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## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic : Not applicable

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



**000003001183**

Version 3.2

Revision Date 2023/03/31

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pollutants (recast)

REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

Water hazard class : WGK 2 obviously hazardous to water  
(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.

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

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

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

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

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

KECI : 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

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture.

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**SECTION 16: Other information**

**Full text of H-Statements**

H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H361f : Suspected of damaging fertility.  
H412 : Harmful to aquatic life with long lasting effects.  
H413 : May cause long lasting harmful effects to aquatic life.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Repr. : Reproductive toxicity  
Skin Irrit. : Skin irritation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## PURITY™/MC FG2 SYNTHETIC

00003001183



Version 3.2

Revision Date 2023/03/31

Print Date 2023/04/01

Skin Sens. : Skin sensitisation

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 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](http://lubricants.petro-canada.com/sds)  
Order Email for packed goods: [pcepackage@hfsinclair.com](mailto:pcepackage@hfsinclair.com)  
Order Email for bulk: [pceorders@hfsinclair.com](mailto:pceorders@hfsinclair.com)  
Telephone: +31 88313 0365 / +31 88313 0366  
For Product Safety Information: 1 905-491-0565

Prepared by : Product Safety: +1 905-491-0565

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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**SAFETY DATA SHEET**  
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**PURITY<sup>TM/MC</sup> FG2 SYNTHETIC**



**000003001183**

Version 3.2

Revision Date 2023/03/31

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