

SAFETY DATA SHEET

Issuing Date: 05-02-2015 **Revision Date: 05-02-2015** Version 1

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

1.1.

Product identifier

73000004-M Product Code(s):

Product Name FENELLA OIL F 3202 G

Product Registration number

Denmark Norway Sweden

EC#

Pure substance/preparation

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

Recommended use Forming Oil

Uses advised against Any other purpose.

1.3. Details of the supplier of the safety data sheet

Manufacturer, Importer, Supplier

Houghton plc Houghton S.A.S. Houghton Iberica S.A.

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1.4. Emergency telephone number

3E Company: (+)1 760 476 3961 (Code 333938)

Austria	Notfall-Telefonnummer +43 (0) 1 406 4343			
Bulgaria	Телефон за спешни случаи +359 2 9154 409			
Switzerland	145; +41 (0) 44 254 51 51			
Czech Republic	n Republic Telefonní číslo pro naléhavé situace +420 224 919 293			
Denmark	Ring til Giftlinjen på +45 82 12 12 12			
Finland				
France	Numéro d'appel d'urgence +33 (0)1 45 42 5959			
Hungary	Díjmentesen hívható zöld szám +36 80 20 11 99			
Emergency telephone number +353 01 809 2166				
Netherlands	Telefoonnummer voor +31 30 274 88 88			
Norway	Nødnummer +47 22 59 13 00			
Poland	112			
Portugal	Número de telefone de emergência +351 808 250 143			
Romania	Număr de telefon care poate fi apelat în caz de urgență +021 318 36 06 (08:00-15:00)			
Spain	Número de teléfono de emergencia +34 91 562 0420			
Sweden	Telefonnummer för nödsituationer +46 08 33 12 31 (09:00-17:00)			
Turkey	(+)1 760 476 3959 (Code 333938)			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label Elements

EUH210 - Safety data sheet available on request.

2.3. Other hazards

No information available.

- 1E-05 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 2.23601 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 2.23601 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 2.23601 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 1.00001 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

SECTION 3: Composition/information on ingredients

3.1. Substances / 3.2. Mixtures

This product is a mixture. Health hazard information is based on its ingredients

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Highly refined base oil (Viscosity >20.5 cSt @40°C)	-	-	50% - 100%	**	-
Graphite	231-955-3	7782-42-5	1% - 2.5%	**	01-2119486977-12-xxx x

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 See Section 15 for additional information on base oils.

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first-aid measures

General advice If symptoms persist, call a physician.

Inhalation Move to fresh air.

Skin contact Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting

without medical advice.

Protection of First-aidersUse personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Main Symptoms None

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

^{**} Substances for which there are Community workplace exposure limits

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment:, Use CO2, dry chemical, or foam, Water spray or fog, Cool containers / tanks with water spray

Extinguishing media which shall not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Special Hazard

In the event of fire and/or explosion do not breathe fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Thermal decomposition can lead to release of irritating gases and vapors. This material creates a fire hazard because it floats on

Hazardous Decomposition Products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ensure adequate ventilation.

Advice for non-emergency personnel

Material can create slippery conditions.

Advice for emergency responders

For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills.

6.4. Reference to other sections

See Section 8/12/13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ianition.

Recommended Shelf Life

No information available.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

7.3. Specific end uses

Specific use(s) Forming Oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain
Highly refined base oil (Viscosity >20.5 cSt @40°C)				VLA-EC: 10 mg/m³ VLA-ED: 5 mg/m³
Graphite		STEL: 30 mg/m³ STEL: 12 mg/m³ TWA: 10 mg/m³ TWA: 4 mg/m³	VME: 2 mg/m³	TWA: 2 mg/m³

Chemical Name	Germany	Italy	Portugal	The Netherlands
Graphite	MAK: 1.5 mg/m ³		TWA: 2 mg/m ³	
	MAK: 4 mg/m ³		_	

Chemical Name	Austria	Switzerland	Poland	Ireland
Highly refined base oil (Viscosity >20.5 cSt @40°C)				STEL: 10 mg/m ³ TWA: 5 mg/m ³ (Mist)
Graphite	STEL 10 mg/m ³ MAK: 5 mg/m ³	MAK: 2.5 mg/m ³ MAK: 5 mg/m ³	NDS: 4.0 mg/m ³ NDS: 1.0 mg/m ³ NDS: 6.0 mg/m ³	

Chemical Name	Finland	Denmark	Norway	Sweden
Highly refined base oil (Viscosity	TWA: 5mg/m³ (Öljysumu)	TWA: 1 mg/m³ (Olietåge)	TWA: 1 mg/m³ (Oljetåke)	LLV: 1 mg/m ³
>20.5 cSt @40°C)				STV: 3 mg/m³ (Oljedimma)
Graphite	TWA: 2 mg/m ³	TWA: 2.5 mg/m³	TWA: 5 mg/m³ TWA: 2 mg/m³ STEL: 10 mg/m³ STEL: 4 mg/m³	LLV: 5 mg/m³

Chemical Name	Czech Republic	Hungary	Bulgaria	Romania
Graphite	TWA: 2.0 mg/m ³		TWA: 5.0 mg/m ³	TWA: 2 mg/m ³
	TWA: 10 mg/m ³		_	_

Workers Systemic toxicity

Workers Local effects

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation
			exposure			exposure
Graphite			1.2 mg/m ³			

Consumers Systemic toxicity

	Chemical Name	Long term - Oral	Long term -	Long term -	Short term - Oral	Short term -	Short term -
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	exposure	Dermal exposure	Inhalation exposure	Exposure	Dermal exposure	Inhalation exposure
Graphite	813 mg/kg					

Consumers Local effects

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation
			exposure			exposure
Graphite			0.3 mg/m ³			

Predicted No Effect Concentration (PNEC)

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection Safety glasses with side-shields.

Hand Protection Protective gloves. Please observe the instructions regarding permeability and breakthrough

time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Barrier creams may help to protect the exposed areas of skin, they should

however not be applied once exposure has occurred.

Skin and body protection Long sleeved clothing.

Respiratory protectionNo special protective equipment required. In case of mist, spray or aerosol exposure wear

suitable personal respiratory protection and protective suit.

Hygiene measures Do not eat, drink or smoke when using this product. Handle in accordance with good

industrial hygiene and safety practice.

Environmental Exposure Controls No special e

No special environmental precautions required.

Thermal hazards None under normal use conditions

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state @20°C liquid Appearance No information available

Odor No information available Odor Threshold Not Applicable

<u>Property</u> <u>Values</u> <u>Note</u>

pH Not applicable

Melting Point / Freezing PointNo information available.Boiling point/boiling rangeNo information available.Flash point278.00 °C / 532 °FEvaporation rateNo information availableFlammability (solid, gas)No information available

Flammability Limits in Air

upper flammability limit 10% Lower flammability limit 1%

Vapor pressureNo information available.Vapor densityNo information available.

Relative density 0.894 @15.5C

Solubility(ies) Insoluble in water Partition coefficient: n-octanol/water Not Applicable

Autoignition temperature

Decomposition temperature

Viscosity, kinematic

No information available
No information available
No information available

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Explosive properties Not Applicable **Oxidizing Properties** Not Applicable

9.2 Other information

Viscosity, kinematic (100°C) No information available Pour point No information available **VOC Content** No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use conditions

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition

10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

10.6. <u>Hazardous decomposition products</u>

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product Information - Principle Routes of Exposure

Inhalation This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of

crystalline silica is unlikely to occur from exposure to this product

Eye contact None known

None known Skin contact

Ingestion None known

Acute toxicity - Product Information

Health effects due to the inhalation of mineral dusts containing crystalline silica, crystalline silicates, graphite or coal.

Acute toxicity - Component Information

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
Highly refined base oil (Viscosity >20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	

Graphite >2000 mg/kg (Rat) > 2000 mg/m³ (Rat)

Skin corrosion/irritationNone known.

Serious eye damage/eye irritation None known.

Sensitization

Respiratory Sensitization Skin sensitizationNone known.
None known.

Germ Cell Mutagenicity None known.

Carcinogenicity None known.

Reproductive toxicity None known.

Specific target organ systemic toxicity (single exposure)

None known

Specific target organ systemic toxicity (repeated exposure)

None known.

Aspiration hazard None known.

SECTION 12: Ecological information

12.1. Toxicity

No special environmental measures are necessary.

12.2. Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

The product is insoluble and floats on water.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Dispose of in accordance with local regulations

Products

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal. Observe all label precautions until container is cleaned, reconditioned or

destroyed.

Other Data According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific. Waste codes should be assigned by the user based on the application

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for which the product was used.

SECTION 14: Transport information

14.1. UN-Number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental Hazards

None.

14.6. Special precautions for users

None.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

IMDG/IMONot regulatedADR/RIDNot regulatedICAO/IATANot regulated

SECTION 15: Regulatory information

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

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002. Chemicals (Hazard Information and Packaging) Regulations 2009.

Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990.

Regulation on classification, labeling. of hazardous chemicals (2002 changing 2005). Appendix VI to Regulation on classification, labeling etc. of hazardous chemicals (2002 changing 2010), list of hazardous substances (as amended). Guidelines for submission and declaration of hazardous waste (2009). Transport of dangerous goods: ADR, RID, IMDG and IATA. Administrative norms for pollution of the atmosphere, 2009.

Workplace exposure limits (EH40)

WGK Classification

Hazard to water/Class 2

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The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical Name	CAS-No	EC-No	REACH Registration Number
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	101316-72-7	309-877-7	01-2119489969-06-xxxx
Lubricating oils (petroleum), used, noncatalytically refined	101316-73-8	309-878-2	02-2119822310-56-xxxx
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	265-090-8	
Residual oils (petroleum), solvent-refined	64742-01-4	265-101-6	01-2119488707-21-xxxx
Extracts (petroleum), residual oil solvent	64742-10-5	265-110-5	01-2119488175-30-xxxx
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	01-2119467170-45-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627-25-xxxx
Residual oils (petroleum), hydrotreated	64742-57-0	265-160-8	01-2119489287-22-xxxx
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	265-161-3	
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0	01-2119480472-38-xxxx
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0	265-169-7	01-2119471299-27-xxxx
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	265-174-4	01-2119487080-42-xxxx
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	276-737-9	01-2119474878-16-xxxx
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	72623-87-1	276-738-4	01-2119474889-13-xxxx
Lubricating oils	74869-22-0	278-012-2	
Paraffin oils	8012-95-1	232-384-2	
White mineral oil (petroleum)	8042-47-5	232-455-8	01-2119487078-27-xxxx

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Repr.-Reproduction toxicity Asp. Tox. - Aspiration Toxicity Acute Tox. - Acute Toxicity

Aquatic Acute - Acute Aquatic Toxicity

Aquatic Chronic - Chronic Aquatic Toxicity

Eye Dam. - Eye Damage Eye Irrit. - Eye Irritation Skin Corr. - Skin Corrosion Skin Irrit. - Skin Irritation

Skin Sens. - Skin Sensitizer

Resp. Sens. - Respiratory Sensitizer

STOT SE - Specific target organ systemic toxicity (Single exposure)

STOT RE - Specific target organ systemic toxicity (repeated exposure)

VOC - Volatile organic compounds

Full text of H-Statements referred to under sections 2 and 3

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H224 - Extremely flammable liquid and vapor	H341 - Suspected of causing genetic defects
H225 - Highly flammable liquid and vapor	H350 - May cause cancer
H226 - Flammable liquid and vapor	H351 - Suspected of causing cancer
H270 - May cause or intensify fire; oxidizer	H360 - May damage fertility or the unborn child
H271 - May cause fire or explosion; strong oxidizer	H361 - Suspected of damaging fertility or the unborn child
H272 - May intensify fire; oxidizer	H362 - May cause harm to breast-fed children
H290 - May be corrosive to metals	H370 - Causes damage to organs
H300 - Fatal if swallowed	H371 - May cause damage to organs
H301 - Toxic if swallowed	H372 - Causes damage to organs through prolonged or repeated
H302 - Harmful if swallowed	exposure
H304 - May be fatal if swallowed and enters airways	H373 - May cause damage to organs through prolonged or repeated
H310 - Fatal in contact with skin	exposure
H311 - Toxic in contact with skin	H400 - Very toxic to aquatic life
H312 - Harmful in contact with skin	H410 - Very toxic to aquatic life with long lasting effects
H314 - Causes severe skin burns and eye damage	H411 - Toxic to aquatic life with long lasting effects
H315 - Causes skin irritation	H412 - Harmful to aquatic life with long lasting effects
H317 - May cause an allergic skin reaction	 H413 - May cause long lasting harmful effects to aquatic life.
H318 - Causes serious eye damage	• H360Df - May damage the unborn child. Suspected of damaging fertility
H319 - Causes serious eye irritation	H360D - May damage the unborn child
H330 - Fatal if inhaled	 H360FD - May damage fertility. May damage the unborn child
H331 - Toxic if inhaled	H360F - May damage fertility
H332 - Harmful if inhaled	H361d - Suspected of damaging the unborn child
H334 - May cause allergy or asthma symptoms or breathing difficulties	H361fd - Suspected of damaging fertility. Suspected of damaging the
if inhaled	unborn child
H335 - May cause respiratory irritation	H361f - Suspected of damaging fertility
H336 - May cause drowsiness or dizziness	 EUH066 - Repeated exposure may cause skin dryness or cracking
H340 - May cause genetic defects	EUH210 - Safety data sheet available on request.
	EUH208 - May produce an allergic reaction

Exposure scenario

No information available.

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Revision Note

Disclaimer

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.