

# SAFETY DATA SHEET

Issuing Date: 05-14-2015 **Revision Date: 05-14-2015** Version 1

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

1.1.

**Product identifier** 

21010020-M Product Code(s):

**Product Name ENSIS ENGINE OIL 20** 

**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 Antirust

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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**Revision Date: 05-14-2015** 

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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	Telefonní číslo pro naléhavé situace +420 224 919 293	
Denmark	Ring til Giftlinjen på +45 82 12 12 12	
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France	Numéro d'appel d'urgence +33 (0)1 45 42 5959	
Hungary	Díjmentesen hívható zöld szám +36 80 20 11 99	
Ireland	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

Contains N-1-naphthylaniline May produce an allergic reaction.

#### 2.2. Label Elements

EUH208 - Contains N-1-naphthylaniline May produce an allergic reaction.

#### 2.3. Other hazards

No information available.

**Revision Date: 05-14-2015** 

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0.16 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 3.74 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 3.74 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 3.74 % 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%	**	-
Calcium Sulfonate	-	NOT AVAILABLE	1% - 2.5%	Eye Irrit. 2 (H319)	no data available

#### **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

May produce an allergic reaction. When symptoms persist or in all cases of doubt seek **General advice** 

medical advice.

Inhalation Move to fresh air.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing before re-use. May cause an allergic skin reaction. If symptoms

persist, call a physician.

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

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

without medical advice.

**Protection of First-aiders** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

**Main Symptoms** May cause allergic skin reaction

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician May cause sensitization of susceptible persons. Treat symptomatically.

## **SECTION 5: FIRE FIGHTING MEASURES**

# 5.1. Extinguishing media

<sup>\*\*</sup> Substances for which there are Community workplace exposure limits

#### Suitable Extinguishing Media

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 water.

#### **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. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Advice for non-emergency

Material can create slippery conditions.

personnel

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. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

#### 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

ignition.

# **Recommended Shelf Life**

No information available.

# **Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

#### 7.3. Specific end uses

Specific use(s) Antirust

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

## 8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain
Highly refined base oil				VLA-EC: 10 mg/m <sup>3</sup>
(Viscosity >20.5 cSt @40°C)				VLA-ED: 5 mg/m <sup>3</sup>

Chemical Name	Austria	Switzerland	Poland	Ireland
Highly refined base oil				STEL: 10 mg/m <sup>3</sup>
(Viscosity >20.5 cSt @40°C)				TWA: 5 mg/m <sup>3</sup>
				(Mist)

	Chemical Name	Finland	Denmark	Norway	Sweden
I	Highly refined base oil (Viscosity	TWA: 5mg/m³ (Öljysumu)	TWA: 1 mg/m³ (Olietåge)	TWA: 1 mg/m³ (Oljetåke)	LLV: 1 mg/m <sup>3</sup>
	>20.5 cSt @40°C)				STV: 3 mg/m <sup>3</sup>
-					(Oljedimma)

Workers Systemic toxicity

**Workers Local effects** 

**Consumers Systemic toxicity** 

**Consumers Local effects** 

**Predicted No Effect Concentration (PNEC)** 

# 8.2. Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection Hand Protection

Safety glasses with side-shields.

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

Skin and body protection

however not be applied once exposure has occurred.

Long sleeved clothing.

No special protective equipment required. In case of mist, spray or aerosol exposure wear Respiratory protection

suitable personal respiratory protection and protective suit.

Hygiene measures Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove

and wash contaminated clothing before re-use. Handle in accordance with good industrial

**Revision Date: 05-14-2015** 

hygiene and safety practice.

**Environmental Exposure Controls** 

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

clear, amber Physical state @20°C liquid **Appearance** Not Applicable Odor Mild **Odor Threshold** 

Values Property Note

Not applicable рH

**Melting Point / Freezing Point** No information available. Boiling point/boiling range No information available.

Flash point 210 °C / 410 °F ASTM D 92

**Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limits in Air

upper flammability limit No information available. Lower flammability limit No information available.

Vapor pressure No information available. Vapor density No information available.

Relative density 0.9100 g/cm3 @20°C

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

**Autoignition temperature** No information available **Decomposition temperature** No information available

Viscosity, kinematic 95 cSt @ 40 °C ASTM D 445

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

9.2 Other information

8.8 cSt @ 100°C Viscosity, kinematic (100°C) **ASTM D 7042** 

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

**Revision Date: 05-14-2015** 

#### 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. Hazardous decomposition products

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 None known

None known Eye contact

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Ingestion None known

#### **Acute toxicity - Product Information**

Product does not present an acute toxicity hazard based on known information.

# **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	
Calcium Sulfonate	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	

Skin corrosion/irritation None known.

Serious eye damage/eye irritation None known.

Sensitization

**Respiratory Sensitization** None known.

Skin sensitization May cause an allergic skin reaction.

**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.

None known. **Aspiration hazard** 

**Symptoms** 

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

**Revision Date: 05-14-2015** 

# **SECTION 12: Ecological information**

## 12.1. Toxicity

No special environmental measures are necessary.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Calcium Sulfonate	>10000: 96 h Cyprinodon variegatus mg/L LC50			

# 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 **Products** 

Dispose of in accordance with local regulations

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 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.

ADR/RID

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

Not regulated

Not applicable

IMDG/IMO Not regulated

ICAO/IATA Not 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**

Low hazard to water/Class 1

# 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	72623-86-0	276-737-9	01-2119474878-16-xxxx
oil-based			
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

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

## **Exposure scenario**

No information available.

**Issuing Date:** 05-14-2015

Revision Date: 05-14-2015

#### **Revision Note**

#### **Disclaimer**

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