

SAFETY DATA SHEET

Issuing Date: 10-22-2014

Revision Date: 10-19-2014

Version 1

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

1.1. Product identifier

Product Code(s): Product Name Product Registration number	05046125-M HOUGHTO-DRIVE HM 46
Denmark	-
Norway Sweden	
EC #	Not Applicable
Pure substance/preparation	Contains Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)

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

Any other purpose.

Recommended use	Hydraulic oil

Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer, Importer, Supplier

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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		
Finland	Hätäpuhelinnumero +358 09 471 977		
France	Numéro d'appel d'urgence +33 (0)1 45 42 5959		
Hungary	Díjmentesen hívható zöld szám +36 80 20 11 99		
reland	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

Contains Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)

EUH210 - Safety data sheet available on request.

2.3. Other hazards

No information available.

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%	**	-
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	-	-	25% - 50%	Asp. Tox. 1 (H304) (EUH066)	-

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-aiders	Use 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

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

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

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

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 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

After cleaning, flush away traces with water.

6.4. <u>Reference to other sections</u>

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 ignition.

Recommended Shelf Life

No information available.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

7.3. Specific end uses

Specific use(s)

Hydraulic 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/m ³ VLA-ED: 5 mg/m ³
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)				VLA-EC: 10 mg/m ³ VLA-ED: 5 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
(VISCOSILY >20.3 CSI @40 C)				(Mist)
Highly refined, low viscosity mineral oils/hydrocarbons				STEL: 10 mg/m ³ TWA: 5 mg/m ³
(Viscosity >7 - <20.5 cSt @40°C)				(Mist)

Chemical Name	Finland	Denmark	Norway	Sweden
Highly refined base oil (Viscosity	TWA: 5mg/m ³ (Öljysumu)	TWA: 1 mg/m ³ (Olietåge)	TWA: 1 mg/m ³ (Oljetåke)	LLV: 1 mg/m ³
>20.5 cSt @40°C)				STV: 3 mg/m ³ (Oljedimma)
Highly refined, low viscosity mineral	TWA: 5ma/m³ (Ölivsumu)	TWA: 1 mg/m ³ (Olietåge)	TWA: 1 mg/m ³ (Oljetåke)	LLV: 1 mg/m ³
oils/hydrocarbons (Viscosity >7 -	- 3 (- 1) (3. (3-)	J. (- J)	STV: 3 mg/m ³
<20.5 cSt @40°C)				(Oljedimma)

Chemical Name	RCP OEL	Manufacturer
Distillates (petroleum), hydrotreated middle	RCP: TWA 1200 mg/m ³ 143ppm	
64742-46-7		

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	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 protection	No 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 Thermal hazards	No special environmental precautions required. None under normal use conditions

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state @20°C Odor	liquid mineral oil	Appearance Odor Threshold	clear amber Not Applicable
Property pH	<u>Values</u> No information available		Note
Melting Point / Freezing Point			
Boiling point/boiling range	> 200 °C / > 392 °F		
Flash point	215 °C / 419 °F		ASTM D 92
Evaporation rate	negligible		
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	0.88		@15.5C
Solubility(ies)	Insoluble in water		
Partition coefficient: n-octand	• •		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Viscosity, kinematic	46 cSt @ 40 °C		ASTM D 445
Explosive properties	Not Applicable		
Oxidizing Properties	Not Applicable		
9.2 Other information			
Viscosity, kinematic (100°C)	No information available		
Pour point	< 0 °C / < 32 °F		ASTM D 97
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

Heat, flames and sparks, 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	None known
Eye contact	None known
Skin contact	None known
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	
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	

Skin corrosion/irritation	None known.
Serious eye damage/eye irritation	None known.
Sensitization Respiratory Sensitization Skin sensitization	None known. None known.
Germ Cell Mutagenicity	None known.
Carcinogenicity	None known.
Reproductive toxicity	None known.
Specific target organ systemic	None known

toxicity (single exposure)

Specific target organ systemic None known. toxicity (repeated exposure)

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

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.

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

Not applicable

IMDG/IMO	Not regulated

ADR/RID	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,

Regulation on classification, labeling. of nazardous 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	

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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

The highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <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
Distillates (petroleum), straight-run middle	64741-44-2	265-044-7	
Distillates (petroleum), heavy hydrocracked	64741-76-0	265-077-7	01-2119486951-26-xxxx
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	265-091-3	01-2119487067-30-xxxx
Distillates (petroleum), hydrotreated middle	64742-46-7	265-148-2	01-2119459347-30-xxxx
Distillates (petroleum), hydrotreated middle	64742-46-7	934-956-3	01-2119827000-58-xxxx
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	01-2119456620-43-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	01-2119480375-34-xxxx
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627-25-xxxx
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	01-2119487077-29-xxxx
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	265-159-2	01-2119480132-48-xxxx
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0	265-169-7	01-2119471299-27-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
White mineral oil (petroleum)	8042-47-5	232-455-8	01-2119487078-27-xxxx
Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	920-114-2	01-2119459347-30-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 H225 - Highly flammable liquid and vapor H226 - Flammable liquid and vapor H226 - Flammable liquid and vapor H270 - May cause or intensify fire; oxidizer H271 - May cause fire or explosion; strong oxidizer H360 - May damage fertility or the unborn child H361 - Suspected of damaging fertility or the unborn child
 H226 - Flammable liquid and vapor H351 - Suspected of causing cancer H350 - May cause or intensify fire; oxidizer H360 - May damage fertility or the unborn child
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 repeate
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 fe
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 f
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.