

SAFETY DATA SHEET

Issuing Date: 05-01-2015 **Revision Date: 05-01-2015** Version 1

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

1.1.

Product identifier

06010005-M Product Code(s):

Product Name HOUGHTO-DRIVE HM 5

Product Registration number

Denmark Norway Sweden

EC# Not Applicable

Contains Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt Pure substance/preparation

@40°C), Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)

Houghton Iberica S.A.

Telefoon: +31 162458400

Lautamiehentie 3

HOUGHTON EUROPE N.V Sivuliike Suomessa

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

Recommended use Hydraulic Fluid, Oil based

Uses advised against Any other purpose.

1.3. Details of the supplier of the safety data sheet

Manufacturer, Importer, Supplier

Houghton S.A.S. Houghton plc Beacon Road 604 Bd Albert Camus,

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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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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

Aspiration toxicity	Category 1 - (H304)
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2.2. Label Elements

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



Signal Word DANGER

Hazard Statements

 $\ensuremath{\mathsf{H304}}$ - $\ensuremath{\mathsf{May}}$ be fatal if swallowed and enters airways

EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 - Do NOT induce vomiting

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, low viscosity base oil (Viscosity <7 cSt @40°C)	<u>-</u>	-	50% - 100%	Asp. Tox. 1 (H304) (EUH066)	-
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	-	-	10% - 25%	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 Immediate medical attention is required. Do not get in eyes, on skin, or on clothing.

Inhalation Move to fresh air. Potential for aspiration if swallowed. Get medical attention immediately if

symptoms occur.

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 Do not induce vomiting without medical advice. Clean mouth with water and afterwards

drink plenty of water. Aspiration hazard if swallowed - can enter lungs and cause damage. If

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symptoms persist, call a physician.

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

Main Symptoms May be fatal if swallowed and enters airways

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 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.

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

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. After cleaning, flush away traces with water.

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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 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 Fluid, Oil based

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)				VLA-EC: 10 mg/m³ VLA-ED: 5 mg/m³
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)				VLA-EC: 10 mg/m³ VLA-ED: 5 mg/m³

Chemical Name	Austria	Switzerland	Poland	Ireland
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)				STEL: 10 mg/m³ TWA: 5 mg/m³ (Mist)
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)				STEL: 10 mg/m³ TWA: 5 mg/m³ (Mist)

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

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Hydrocarbon solvent vapor mixtures which do not have substance specific occupational exposure limits may be evaluated by the Reciprocal Calculation Procedure (RCP) which assigns a recommended occupational exposure limit based on the mass composition and hydrocarbon group guidance values (GGVs). Applicable recommended occupational exposure limits are shown in the table below.

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

Chemical Name	RCP OEL	Manufacturer
Distillates (petroleum), hydrotreated middle 64742-46-7	RCP: TWA 1200 mg/m ³ 143ppm	
Distillates (petroleum), hydrotreated light 64742-47-8	RCP: TWA 1200 mg/m ³ 182ppm	
Naphtha (petroleum), hydrotreated heavy 64742-48-9	RCP: TWA 1000 mg/m ³	
C12-C14 isoalkanes 68551-19-9	RCP: TWA 1200 mg/m ³	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m ³	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 600 mg/m ³	
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m ³	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 150ppm TWA: 1200 mg/m³	
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics NOT AVAILABLE	TWA: 171 ppm TWA: 1200 mg/m³	
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m ³	
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 165 ppm TWA: 1200 mg/m³	
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 1200 mg/m ³ 182ppm	
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m ³	
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m ³	

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

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however not be applied once exposure has occurred.

Skin and body protection Respiratory protection

Long sleeved clothing.

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

suitable personal respiratory protection and protective suit.

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

industrial 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

Physical state @20°C liquid **Appearance** vellow

Petroleum distillates **Odor Threshold** Odor Not Applicable

Property Values Note

Hq Not applicable

< -5 °C / < 23 °F **Melting Point / Freezing Point**

> 200 °C / > 392 °F Boiling point/boiling range 135 °C / 275 °F Flash point

Open cup **Evaporation rate** negligible No information available No information available

Flammability (solid, gas)

Flammability Limits in Air

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

Vapor pressure No information available. negligible

Vapor density No information available.

Relative density 0.83 @15.5°C

Solubility(ies) No information available.

Partition coefficient: n-octanol/water Not Applicable

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

Viscosity, kinematic 5 cSt @ 40 °C **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. 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 Risk of serious damage to the lungs (by aspiration)

Eye contact None known
Skin contact None known

Ingestion Risk of product entering the lungs on vomiting after ingestion

Acute toxicity - Product Information

May be harmful if swallowed and enters airways.

Acute toxicity - Component Information

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
Highly refined, low viscosity base oil (Viscosity <7 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 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

Risk of serious damage to the lungs (by aspiration).

Symptoms

Prolonged skin contact may defat the skin and produce dermatitis.

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

No information available

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 as hazardous waste in compliance with local and national 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.

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, 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, 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

The highly refined, low viscosity base oil (Viscosity <7 cSt $@40^{\circ}$ 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), hydrotreated middle	64742-46-7	934-956-3	01-2119827000-58-xxxx
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	64742-46-7	932-078-5	01-2119552497-29-xxxx
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	01-2119456620-43-xxxx
Naphtha (petroleum), hydrotreated heavy	64742-48-9	265-150-3	01-2119457273-39-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	01-2119480375-34-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
C12-C14 isoalkanes	68551-19-9	271-369-5	
White mineral oil (petroleum)	8042-47-5	232-455-8	01-2119487078-27-xxxx
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9	482-220-0	01-0000020163-82-xxxx
Alkanes, C14-16	90622-46-1	292-448-0	
Alkanes, C12-26-branched and linear	90622-53-0	292-454-3	
Alkanes, C11-15-iso-	90622-58-5	292-460-6	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	926-141-6	01-2119456620-43-xxxx
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	918-481-9	01-2119457273-39-xxxx
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	NOT AVAILABLE	934-954-2	01-2119826592-36-xxxx
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	920-107-4	01-2119453414-43-xxxx
Hydrocarbons, C11-C14, n-alkanes, <2% aromatics	NOT AVAILABLE	924-803-9	01-2119485647-22-xxxx
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	NOT AVAILABLE	920-901-0	01-2119456810-40-xxxx
Hydrocarbons, C14-C18, n-alkanes, cyclics, aromatics (2-30%)	NOT AVAILABLE	920-360-0	01-2119448343-41-xxxx
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	NOT AVAILABLE	918-167-1	01-2119472146-39-xxxx
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	927-285-2	01-2119480162-45-xxxx
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	927-676-8	01-2119456377-30-xxxx
Hydrocarbons, C13-C16, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE	918-973-3	01-2119458871-30-xxxx
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	NOT AVAILABLE	934-956-3	01-2119827000-58-xxxx
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	927-632-8	01-2119457736-27-xxxx

15.2. Chemical Safety Assessment

No information available.

SECTION	116. Othe	er 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	
11005		

H225 - Highly flammable liquid and vapor
H226 - Flammable liquid and vapor

• H270 - Flammable liquid and vapor • H270 - May cause or intensify fire; oxidizer

H271 - May cause fire or explosion; strong oxidizer

H272 - May intensify fire; oxidizer

H290 - May be corrosive to metals

H300 - Fatal if swallowed

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

· H310 - Fatal in contact with skin

· H311 - Toxic in contact with skin

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

· H317 - May cause an allergic skin reaction

• H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H331 - Toxic if inhaled

H332 - Harmful if inhaled

 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H351 - Suspected of causing cancer

H360 - May damage fertility or the unborn child

· H361 - Suspected of damaging fertility or the unborn child

H362 - May cause harm to breast-fed children

H370 - Causes damage to organs

H371 - May cause damage to organs

 H372 - Causes damage to organs through prolonged or repeated exposure

• H373 - May cause damage to organs through prolonged or repeated exposure

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• H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

• H412 - Harmful to aquatic life with long lasting effects

• H413 - May cause long lasting harmful effects to aquatic life.

• H360Df - May damage the unborn child. Suspected of damaging fertility

H360D - May damage the unborn child

H360FD - May damage fertility. May damage the unborn child

H360F - May damage fertility

H361d - Suspected of damaging the unborn child

 H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

· H361f - Suspected of damaging fertility

EUH066 - Repeated exposure may cause skin dryness or cracking

• 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

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