

SAFETY DATA SHEET

Issuing Date: 05-28-2015 **Revision Date: 05-28-2015** Version 1

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

1.1.

Product identifier

01273200-M Product Code(s) (ES):

Product Name HOUGHTO-SAFE 273 CTF

Product Registration number

Denmark Norway Sweden

EC#

Pure substance/preparation Contains Ethane-1,2-diol

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

Recommended use Fire-resistant hydraulic fluid

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	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
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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

Acute Toxicity - Oral	Category 4 - (H302)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)

2.2. Label Elements

Contains Ethane-1,2-diol



Signal Word WARNING

Hazard Statements

H302 - Harmful if swallowed

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

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P330 - Rinse mouth

P314 - Get medical advice/attention if you feel unwell

2.3. Other hazards

No information available.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0.0025 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0.9 % 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
Ethane-1,2-diol	203-473-3	107-21-1	25% - 50%	Acute Tox. 4 (H302) STOT RE 2 (H373)	01-2119456816-28-xxx x
Neutralised Dibutylamine	203-921-8	111-92-2*	0% - 1%	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Flam Liq. 3 (H226)	01-2119475606-30-xxx x

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

SECTION 4: First aid measures

4.1. Description of first-aid measures

General advice Do not get in eyes, on skin, or on clothing. When symptoms persist or in all cases of doubt

seek medical advice. Do not breathe dust/fume/gas/mist/vapors/spray.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If

symptoms persist, call a physician.

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

contaminated clothing before re-use. If symptoms persist, call a physician.

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. Call a POISON CENTER or doctor/physician if exposed or you feel

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unwell.

medical personnel are aware of the material(s) involved, and take precautions to protect

themselves.

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

Main Symptoms Gastrointestinal discomfort

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

Extinguishing media which shall not be used for safety reasons

None

5.2. Special hazards arising from the substance or mixture

Special Hazard

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Decomposition Products

None under normal use

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

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

Advice for non-emergency

personnel

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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

After cleaning, flush away traces with water.

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.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

Recommended Shelf Life

No information available.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

7.3. Specific end uses

Specific use(s)

Fire-resistant hydraulic fluid

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain
Ethane-1,2-diol	S*	STEL: 40 ppm STEL: 104	VME: 20 ppm VME: 52	S*
	TWA 20 ppm TWA 52 mg/m ³	mg/m³	mg/m³	STEL: 40 ppm
	STEL 40 ppm STEL 104	TWA: 20 ppm TWA: 52	VLCT: 40 ppm VLCT: 104	STEL: 104 mg/m ³
	mg/m³	mg/m³ TWA: 10 mg/m³	mg/m³	TWA: 20 ppm
		Skin		TWA: 52 mg/m ³

Chemical Name	Germany	Italy	Portugal	The Netherlands
Ethane-1,2-diol	MAK: 10 ppm MAK: 26 mg/m³ Ceiling / Peak: 20 ppm Ceiling / Peak: 52 mg/m³ Skin TWA: 10 ppm TWA: 26 mg/m³	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Skin	Ceiling: 100 mg/m ³	Skin STEL: 104 mg/m³ TWA: 52 mg/m³ TWA: 10 mg/m³
Neutralised Dibutylamine	TWA: 5 ppm TWA: 29 mg/m ³			

Chemical Name	Austria	Switzerland	Poland	Ireland
Ethane-1,2-diol	Skin	Skin	NDSCh: 50 mg/m ³	TWA: 10 mg/m ³ TWA: 20
	STEL 20 ppm STEL 52	STEL: 20 ppm STEL: 52	NDS: 15 mg/m ³	ppm
	mg/m³	mg/m³	_	STEL: 40 ppm STEL: 104
	MAK: 10 ppm MAK: 26	MAK: 10 ppm MAK: 26		mg/m³

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mg/m³	mg/m³	Skin
Skin STEL 5 ppm STEL 29 mg/m³ MAK: 5 ppm MAK: 29 mg/m³ Ceiling 5 ppm Ceiling 29 mg/m³		

Chemical Name	Finland	Denmark	Norway	Sweden
Ethane-1,2-diol	TWA: 20 ppm TWA: 50 mg/m³	TWA: 10 ppm TWA: 26 mg/m ³	Skin Ceiling: 20 ppm 52 mg/m ³	LLV: 10 ppm LLV: 25 mg/m ³
	STEL: 40 ppm STEL: 100	o o	STEL: 40 ppm 104 mg/m ³	H
	mg/m³ Skin	Skin		STV: 20 ppm STV: 50 mg/m ³
Neutralised Dibutylamine	STEL: 5 ppm STEL: 27 mg/m³ Skin			5. v. 55 mg/m

Chemical Name	Czech Republic	Hungary	Bulgaria	Romania
Ethane-1,2-diol	Ceiling: 100 mg/m³ TWA: 50 mg/m³ Skin	STEL: 104 mg/m³ TWA: 52 mg/m³ Skin	STEL: 104.0 mg/m³ TWA: 52.0 mg/m³ Skin	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Skin
Neutralised Dibutylamine				STEL: 1.1 ppm STEL: 6 mg/m³

Workers Systemic toxicity

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
Ethane-1,2-diol		106 mg/kg	35 mg/m ³			
Neutralised Dibutylamine			29 mg/m ³			29 mg/m³

Workers Local effects

	Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation exposure	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation exposure
Ī	Ethane-1,2-diol						35 mg/m ³
Ī	Neutralised Dibutylamine			29 mg/m ³			29 mg/m ³

Consumers Systemic toxicity

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation exposure	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation exposure
Ethane-1,2-diol		53 mg/kg				

Consumers Local effects

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure		Short term - Oral Exposure	Short term - Dermal exposure	
			exposure			exposure
Ethane-1,2-diol			7 mg/m³			

Predicted No Effect Concentration (PNEC)

Chemical Name	Fresh water	Sea water	Fresh water sediment	Sea sediment	Soil
Ethane-1,2-diol	10 mg/L	1 mg/L	37 mg/kg	3.7 mg/kg	1.53 mg/kg
Neutralised Dibutylamine	0.084 mg/L	0.0084 mg/L	11.4 mg/kg	1.14 mg/kg	2.23 mg/kg

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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 complying with EN 374. 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

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as the danger of cuts, abrasion.

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.

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 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 9.6

Melting Point / Freezing PointNo information available.Boiling point/boiling rangeNo information available.Flash pointNo information availableEvaporation rateNo information availableFlammability (solid, gas)No information available

Flammability Limits in Air

upper flammability limitNo information available.Lower flammability limitNo information available.

Vapor pressureNo information available.Vapor densityNo information available.

Relative density 1.0900 @15.5°C

Solubility(ies) No information available.

Partition coefficient: n-octanol/water Not Applicable

Autoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, kinematicNo information available

Explosive propertiesNot Applicable **Oxidizing Properties**Not Applicable

9.2 Other information

Viscosity, kinematic (100°C)No information availablePour pointNo information availableVOC ContentNo information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use conditions.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use conditions

10.4. Conditions to avoid

Do not freeze

10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

10.6. Hazardous decomposition products

None under normal use conditions

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

Harmful if swallowed; Ingestion constitutes the main danger because of the toxicity of Ingestion

ethylene glycol; May cause adverse liver effects; May cause adverse kidney effects

Acute toxicity - Product Information

Harmful if swallowed.

LD50 Oral: 1351.35 mg/kg

Acute toxicity - Component Information

Non-hazardous ingredients

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
Ethane-1,2-diol	4000 mg/kg (Rat)	= 9530 μL/kg (Rabbit)	
Neutralised Dibutylamine	550 mg/kg (Rat)	= 768 mg/kg (Rabbit)	

Skin corrosion/irritation None known.

Serious eye damage/eye irritation None known.

Sensitization

Respiratory Sensitization None known. Skin sensitization None known.

None known. **Germ Cell Mutagenicity**

Carcinogenicity None known.

Reproductive toxicity None known.

Specific target organ systemic toxicity (single exposure)

None known

Specific target organ systemic toxicity (repeated exposure)

May cause damage to organs through prolonged or repeated exposure if swallowed

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Aspiration hazard

None known.

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
Ethane-1,2-diol	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	41000: 96 h Oncorhynchus mykiss mg/L LC50 14-18: 96 h Oncorhynchus mykiss ml/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 40000-60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static		46300: 48 h Daphnia magna mg/L EC50
Neutralised Dibutylamine	16.9: 72 h Scenedesmus subspicatus mg/L EC50	5.5: 96 h Oncorhynchus mykiss mg/L LC50		65.98: 48 h Daphnia magna mg/L EC50 8.4: 48 h Ceriodaphnia dubia mg/L EC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available

Chemical Name	log Pow		
Ethane-1,2-diol	-1.93		
Neutralised Dibutylamine	2.06		

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 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

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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 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

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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

H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects

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

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

• EUH066 - Repeated exposure may cause skin dryness or cracking

EUH210 - Safety data sheet available on request.
EUH208 - May produce an allergic reaction

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Exposure scenario

No information available.

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Revision Note

Disclaimer

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