

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product name:** HOUGHTO-SAFE 273CTF

**Product code:** 40026

**Use / description of product:** Supplied as a water glycol fire resistant hydraulic fluid for use in suitable industrial hydraulic systems only. The product should be used as supplied.

**Company name:** Houghton Plc  
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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

- Hazardous ingredients:** ETHYLENE GLYCOL 30-50%  
EINECS: 203-473-3 CAS: 107-21-1  
[Xn] R22
- DECANOIC ACID, COMPD WITH DIBUTYLAMINE 1-10%  
CAS: 29425-97-6  
[Xi] R36/38
  - NEODECANOIC ACID, COMPOUND WITH 2-AMINOETHANOL 1-10%  
CAS: 84145-06-2  
[Xi] R36/38
  - PEG/PPG MONOBUTYL ETHER. <1%  
CAS: 9038-95-3  
[T+] R26; [-]

**Contains:** PEG/PPG Monobutyl Ether is unlikely to be hazardous by inhalation unless present as an Aerosol.

## 3. HAZARDS IDENTIFICATION

**Main hazards:** Harmful by inhalation and if swallowed.

**Other hazards:** This product is unlikely to be harmful by inhalation unless present as an aerosol.

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.

#### 4. FIRST AID MEASURES (ACTION)

- Skin contact:** Wash immediately with plenty of soap and water.
- Eye contact:** Bathe the eye with running water for 15 minutes.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

#### 5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- Exposure hazards:** In combustion emits toxic fumes.
- Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 7. HANDLING AND STORAGE

- Handling requirements:** Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.
- Suitable packaging:** Must only be kept in original packaging.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Hazardous ingredients:** ETHYLENE GLYCOL  
WEL (8 hr exposure limit): 60 mg/m<sup>3</sup> WEL (15 min exposure limit): 125 mg/m<sup>3</sup>
- Respiratory protection:** Respiratory protection not required.
- Hand protection:** Protective gloves.
- Eye protection:** Safety glasses. Ensure eye bath is to hand.
- Skin protection:** Protective clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- State:** Liquid
- Colour:** Red/Pink Fluorescent
- Solubility in water:** Soluble
- Viscosity value:** 35-38

**Viscosity test method:** Kinematic viscosity in 10<sup>-6</sup> m<sup>2</sup>/s at 40°C (ISO 3104/3105)

**Relative density:** 1.074

**pH:** 9.6

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients:** ETHYLENE GLYCOL

IVN RAT LD50 3260 mg/kg

ORL MUS LD50 5500 mg/kg

ORL RAT LD50 4700 mg/kg

- PEG/PPG MONOBUTYL ETHER.

ORL RAT LD50 >5000 mg/kg

SKN RBT LD50 >20000 mg/kg

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

## 12. ECOLOGICAL INFORMATION

**Hazardous ingredients:** PEG/PPG MONOBUTYL ETHER.

FISH 96H LC50 >1000 mg/l

**Mobility:** Readily absorbed into soil.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

**Other adverse effects:** Negligible ecotoxicity.

## 13. DISPOSAL CONSIDERATIONS

**Disposal operations:** Classified as hazardous waste under UK and European law.

**Disposal of packaging:** IBC's have a refundable deposit paid on them and should be returned. 205 litre unlined steel drums also carry a deposit but can be returned for recycling. All other packaging should be disposed of in a manner acceptable to the authorities.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

### ADR / RID

**UN no:** -

**Shipping name:** "NOT SUBJECT TO ADR"

**IMDG / IMO**

UN no: -

**IATA / ICAO**

UN no: -

**15. REGULATORY INFORMATION****Hazard symbols:** Harmful.**Risk phrases:** R20/22: Harmful by inhalation and if swallowed.**Safety phrases:** S23: Do not breathe mists.

S60: This material and its container must be disposed of as hazardous waste.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.**16. OTHER INFORMATION****Other information:** The classification detailed on this Safety Data Sheet refer to the neat material only. Dilution of the product may reduce the classification.

This safety data sheet conforms to 2001/58/EEC.

Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990. Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002.

Chemicals (Hazard Information and Packaging) Regulations 2002.

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004.

The Hazardous Waste (England and Wales) Regulations 2005.

**Risk phrases used in s.2:** R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin.

R26: Very toxic by inhalation.

Unlikely to be hazardous by inhalation unless present as an AEROSOL.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.