



## HEALTH AND SAFETY DATA SHEETS

### 1. PRODUCT IDENTIFICATION

**Cooltrans CT**

#### SUPPLIED BY

Kilfrost Limited  
Albion Works  
HALTWHISTLE  
Northumberland  
NE49 0HJ  
ENGLAND

### DESCRIPTION

Heat Transfer Fluid

### EMERGENCY NUMBERS

Telephone:  
Working Hours: (01434) 320332  
Other Times: 07760627598  
FAX: (01434) 321463  
e-mail: info@kilfrost.com

### 2. HAZARD IDENTIFICATION

**Classification under CHIP:**

**Xn: R22, Harmful if swallowed.**

**Classification under CLP (GHS)**

**Acute tox. 4: H302; Eye Irrit. 2: H319;  
Skin Irrit. 2: H315.**

2.1 Skin

There may be mild irritation.

2.2 Eyes

There may be irritation and redness.

2.3 Ingestion

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

2.4 Inhalation

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

2.5 Label Elements under CLP:

Hazard Statements:

H302: Harmful if swallowed  
H315: Causes skin irritation  
H319: Causes serious eye irritation

Signal Words:

Warning

Hazard Pictograms:

GHS07: Exclamation mark



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Precautionary statements: P264: Wash thoroughly after handling  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective goggles, gloves and clothing.  
P301+310: IF SWALLOWED: Immediately call a poison centre or doctor.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330: Rinse mouth

### 2.7 Label elements in CHIP:

Hazard symbols: Harmful



Risk Phrases: R22: Harmful if swallowed.

### 2.8 Occupational Exposure Limits

An exposure limit has been set for the following: - This applies in the UK only.

Mono Ethylene Glycol (synonyms Ethane-1, 2-diol)

UK (EH 40) WEL

Particulates

10 (8hr TWA) mg/m<sup>3</sup>

Vapour

52 (8hr TWA)

104 (STEL) mg/m<sup>3</sup>

ACGIH (94)

TLV 125 (Ceiling) mg/m<sup>3</sup>

FRANCE VME

No limit assigned.

GERMANY MAK

No limit assigned.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Aqueous mixture of Mono Ethylene Glycol

3.2 Hazardous Ingredients:

Contains a minimum of 75% Mono Ethylene Glycol

CAS no. 107-21-1

EINECS no. 203-473-3

CHIP Classification: Xn: R22

CLP Classification: Acute Tox. 4 : H302

3.3 Disodium Tetraborate Pentahydrate <0.5%

CAS no. 12179-04-3

EINECS no. 215-540-4

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CHIP Classification: Repr. Cat 2 ; R60, R61. Xi ; R36  
CLP Classification: Eye Irrit.2 – H319 ; Repr.1B – H360FD

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### 4. FIRST AID MEASURES

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|-----|--------------|---|
| 4.1 | Skin contact | Wash immediately with plenty of soap and water.   |
| 4.2 | Eye contact  | Bathe the eye with running water for 15minutes.   |
| 4.3 | 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. |
| 4.4 | Inhalation   | Remove casualty from exposure ensuring ones own safety whilst doing so. Consult a doctor.   |
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### 5. FIRE FIGHTING MEASURES

- |     |                            |  |
|-----|----------------------------|--|
| 5.1 | Extinguishing media        | Suitable extinguishing media for the surrounding fire should be used. Used water spray to cool containers. |
| 5.2 | Advice for fire fighters   | Wear self contained breathing apparatus. Wear protective clothing to prevent contact with the substance.   |
| 5.3 | Flash point (closed cup)   | None below boiling point.  |
| 5.4 | Hazardous decomp. products | Incomplete combustion emits toxic fumes.   |
| 5.5 | Auto ignition temperature  | No data.   |
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### 6. ACCIDENTAL RELEASE MEASURES

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|-----|---|
| 6.1 | Contain spillage and absorb on suitable material e.g. sawdust, sand or earth. Transfer to a container for disposal. See section 13. |
| 6.2 | Do not discharge into drains or rivers. Contain the spillage using bunding.   |

### 7. HANDLING AND STORAGE

- |     |                                   |
|-----|-----------------------------------|
| 7.1 | Avoid contact with skin and eyes. |
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- 7.2 Avoid direct contact with the substance.
  - 7.3 Avoid breathing mists/vapours.
  - 7.4 Store in tightly sealed original containers, away from direct heat and strong oxidising agents.
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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Maintain sufficient ventilation to comply with 'Workplace Exposure Limit'.
  - 8.2 Wear eye protection. An eye wash bottle should be available.
  - 8.3 Protective gloves and clothing required.
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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Typical Values

9.1	Appearance	Clear orange liquid
9.2	Odour	slight
9.3	pH (20°C)	8.5 (50% solution)
9.4	Boiling point	149°C
9.5	Flammability data	See 5.1 – 5.3
9.6	Vapour pressure (20°C)	no data
9.7	Specific gravity (20°C)	1.12 g/cm <sup>3</sup>
9.8	Vapour density (air = 1)	no data
9.9	Freezing point	-34°C (50% solution)
9.10	Dynamic Viscosity (20°)	19mPa.S
9.11	Specific heat	2.4kJ/kg K
9.12	Solubility in water	Totally miscible

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### 10. STABILITY AND REACTIVITY

- 10.1 Stable under normal storage conditions.
  - 10.2 Incompatible Materials – strong oxidising agents.
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### 11. TOXICOLOGICAL INFORMATION

- 11.1 Considered to have low oral toxicity. See also section 2.  
11.2 LD<sub>50</sub> (rat – oral) >2000 mg/Kg (estimated)
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### 12. ECOLOGICAL INFORMATION (Estimated data based on similar product)

- 12.1 EC<sub>50</sub> (Daphnia) 750mg/l  
12.4 Water Danger Class (WGK) WGK 1
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### 13. DISPOSAL CONSIDERATION

- 13.1 Dispose of packing through controlled incineration or landfill in accordance with local, state or national regulations. Transfer any waste material to suitable containers and arrange removal by a specialist company.
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### 14. TRANSPORT INFORMATION

- 14.1 Not restricted under any transport regulations.
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### 15. REGULATORY INFORMATION

- 15.1 Not classified as hazardous under any regulations.
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### 16. OTHER INFORMATION

- 16.1 All components are registered in accordance with EINECS AND TSCA.  
16.2 All components are preregistered in accordance with REACH  
16.3 Changes since last revision (20<sup>th</sup> September 2011)  
Section 3 – Composition Information
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**The information contained herein is based on the present state of our knowledge.  
No responsibility is accepted that the information is sufficient or correct in all cases.**

**Date: 12<sup>th</sup> March 2012  
Revision No: 1**

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