



HEALTH AND SAFETY DATA SHEETS

1. IDENTIFICATION OF MIXTURE AND OF COMPANY

1.1 Product identifier

Kilfrost Cooltrans Sustain CTS

1.2 Description & uses

Heat Transfer Fluid

1.3 Supplied by

Kilfrost Limited
Albion Works
HALTWHISTLE
Northumberland
NE49 0HJ
ENGLAND

1.4 Emergency numbers

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

2. HAZARDS IDENTIFICATION

2.1

Classification under CHIP:

NOT CLASSIFIED

Classification under CLP (GHS):

NOT CLASSIFIED

2.2 Label elements under CLP:

This Product has no classification under CLP

Label elements under CHIP:

This Product has no classification under CHIP

3. COMPOSITION INFORMATION

3.2 Mixtures

Aqueous 1,3 propanediol mixture.

Contains a minimum of 80% 1,3 propanediol.

CAS no. 504-63-2

EINECS no. 207-997-3

4. FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact

Wash off in flowing water. Launder contaminated clothing before re-use.

Eye contact

Irrigate with water for 5 minutes. Obtain medical assistance if irritation persists

Ingestion

Give large quantities of water to drink.

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Consult medical personnel.

Inhalation

Remove to fresh air if feeling unwell. Consult medical personnel if symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

Skin

There may be mild irritation.

Eyes

There may be mild irritation.

Ingestion

May cause temporary irritation.

Inhalation

There may be mild irritation.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Water, foam, Carbon Dioxide, dry powder.

5.2 Unusual fire hazards

The product may become combustible after prolonged heating at the boiling point. Incomplete combustion may produce Carbon Monoxide and other harmful gases/vapours.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus, wear protective clothing to prevent contact with the skin and eyes.

Flash point (closed cup)

None below boiling point.

Auto ignition temperature

446°C

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Refer to section 8 for personal protection details.

6.1. Environmental precautions

Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Contain spillage and absorb on suitable material e.g. sawdust, sand or earth. Transfer to a container for disposal. See section 13. Do not use equipment in clean-up procedure which may produce sparks. Wash the spillage area with plenty of water.

6.4. Reference to other sections

Section 8
Section 13.

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7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing mists/vapours.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers, away from direct heat and strong oxidising agents.

8. EXPOSURE CONTROLS

8.1 Exposure Limits

None assigned for any ingredient

8.2. Exposure controls

Respiratory protection:	Respiratory protection not required. Maintain sufficient ventilation to comply with 'Workplace Exposure Limit'.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

	Typical Values
Appearance	Green Liquid
Odour	slight
pH (20°C)	8.5 (50% solution)
Boiling point	154°C
Flammability data	See 5.1 – 5.3
Vapour pressure (20°C)	0.08mmHg (estimate)
Specific gravity (20°C)	1.06 g/cm ³
Vapour density (air = 1)	2.5 (estimate)
Freezing point	<-40-°C*
Dynamic Viscosity (20°)	54mPa.S
Specific heat	2.3kJ/kg K
Solubility in water	Completely miscible

10. STABILITY AND REACTIVITY

10.1 Reactivity

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Stable under normal storage conditions.

10.2 Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Incompatible materials – strong oxidising agents

10.6. Hazardous decomposition products

In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

LD₅₀ (rat – oral) >5000 mg/Kg (OECD 423)

Symptoms

Skin	There may be mild irritation.
Eyes	There may be irritation and redness.
Ingestion	There may be irritation of the throat.
Inhalation	No symptoms

12. ECOLOGICAL INFORMATION

12.1. Toxicity

EC₅₀ (Algae) >1000mg/kg (estimate)

12.2. Persistence and degradability

Biodegradable

BOD₅ 1.2mg/L

12.3. Bioaccumulative potential

No bioaccumulation potential

12.4. Mobility in soil

Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

This substance is not identified as a PBT substance

12.6 Other adverse effects:

Negligible ecotoxicity.

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13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Controlled incineration or landfill in accordance with local, state or national regulations.

14. TRANSPORT INFORMATION

Not restricted under any transport regulations.

15. REGULATORY INFORMATION

Not classified as hazardous under any regulations

German Water hazard Class WGK1

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 This safety data sheet is prepared in accordance with Commission Regulation (EU) No453/2010.

16.4 * Denotes text changes since last revision.

**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.**

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