



Safety Data Sheet according regulation 1907 / 2006 / EG

Trade name: Terra Gelu Heat Transfer Fluid L
Print date: 20.01.2011
Latest update: 20.01.2011

1. Identification of preparation and of the company

Product name: Terra Gelu Heat Transfer Fluid L
Register No.: ----
Usage: Heat transfer fluid
Identified usage: ---
Supplier details: Terra Calidus GmbH
Siemensstraße 37
D-07546 Gera
Telephone: +49 365 5161 8989
Fax: +49 365 5161 8988
Homepage: www.terra-calidus.de
E-mail: info@terra-calidus.de

2. Hazards identification

Not regarded as health or environmental hazard under current legislation.

3. Composition / Information on ingredients

Name: 1.2 Propylene glycol (Propane-1,2-diol)
CAS-Nr: 57-55-6
EINECS-Nr.: 200-338-0
Further ingredients: Corrosion inhibitors, stabilizing agents,
distilled water

4. First aid measures

Inhalation: Move the exposed person to fresh air at once, rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion: Never make an unconscious person vomit or drink fluids. Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact: Make sure to remove any contact lenses from the eyes

before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5. Fire fighting measures

Extinguishing media:	This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.
Specific hazards:	This product is non-combustible. If heated, toxic vapours may be formed.
Protective measures in fire:	Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions:	Wear protective clothing as described in section 8 of this Safety Data Sheet.
Environmental precautions:	Do not discharge into drains water courses or onto ground.
Spill clean up methods:	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water.

7. Handling and storage

Usage precautions:	Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product.
Storage precautions:	Store in tightly closed original container in a dry, cool and well ventilated place. Keep in original container. Avoid contact with oxidizing agents.

8. Exposure controls / Personal protections

Name:	Propylene glycol
Std.:	WEL
LT – ppm:	150ppm / 474 mg/m ³
Engineering measures:	Provide adequate ventilation. Observe workplace exposure limits and minimise the risk of inhalation of vapours.
Respiratory equipment:	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
Hand protection:	Use suitable protective gloves if risk of skin contact. Use protective gloves made of: Polyvinyl chloride (PVC).
Eye protection:	If risk of splashing, wear safety goggles of face shield.

Other protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures:	Do not smoke in work area! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin crème to prevent drying of skin. When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance:	liquid
Colour:	light blue
Odour:	Almost odourless
ph-value:	6-8
Solubility:	miscible with water
Freezing point:	-60° C
Flash point:	99° C
Relative density:	1,04 g / cm ³
Auto ignition temperature:	421° C
Flammability limit:	lower: 2,4 Vol% Upper: 17,4 Vol%
Viscosity:	dynamic at 20° C 60 mPas

10. Stability and reactivity

Stability:	Stable under normal temperature conditions
Conditions to avoid:	Avoid excessive heat (over 280° C) for prolonged periods of time
Hazardous decomposition products:	Fire creates carbon monoxide (CO), carbon dioxide (CO ₂)

11. Toxicological information

Inhalation:	Not relevant at normal room temperatures. When heated irritating vapours may be formed.
Ingestion:	May cause discomfort if swallowed.
Skin contact:	Liquid may irritate skin.
Eye contact:	Spray and vapour in the eyes cause irritation and smarting.

12. Ecological information

Ecotoxicity:	This product is no environmental hazard. According to OECD 301 E / EEC 84/449 C3 readily biodegradable.
Elimination:	> 70% DOC Zahn-Wellens-Test
Aquatic toxicity:	
Cyprinodon, LC50:	23800 mg/l/96h
Daphnia, EC50:	> 43500 mg/l/48h
Green algae, EC50:	> 19000 mg/l/72h

Common information: WGK Wassergefährdungsklasse 1 : schwach
wassergefährdend (Germany)
The product components are not classified as environmental
hazardous.

Bioaccumulation: No Bioaccumulation.

13. Disposal consideration

Disposal methods: Dispose of waste and residues in accordance with local
authority requirements.

14. Transport information

General: The product is not covered by international regulation on the
transport of dangerous goods (IMDG, IATA, ADR/RID)

15. Regulatory information

Risk phrases: Not classified.
Safety phrases: Not classified.

16. Other information

This information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.