

# SAFETY DATA SHEET

## TMC LC-25 Heat Transfer Fluid

### SECTION 1: IDENTIFICATION

#### 1.1. Product identifier:

**Trade name:** TMC LC-25 Heat Transfer Fluid  
**Other names / Synonyms:** Propane-1,2-diol  
**Product no.:** LC25-B, LC25-2.2, LC25-11, LC25-44, LC25-551

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

**Relevant identified uses of the substance or mixture:** Heat Transfer  
Restricted to professional and industrial use.  
**Uses advised against :** None known.

#### 1.3. Details of the supplier of the safety data sheet:

**Company and address:** TMC Industries, Inc.  
1423 Mill Lane  
Waconia, Minnesota 55387  
USA  
TF: +1 (800) 772-8179  
www.tmcindustries.com

**Contact person:** Nick Hansen  
**E-mail:** sales@tmcindustries.com  
**SDS date:** 1/20/2026  
**SDS Version:** 2.0  
**Date of previous version:** 1/20/2026 (1.0)

#### 1.4. ▼ Emergency telephone number:

VeolocityEHS 1-800-255-3924 within the US, Canada, Puerto Rico and the U.S. Virgin Islands. If outside those areas, call 1-813-248-0585 (Contract#: MIS8157133).

### SECTION 2: HAZARD(S) IDENTIFICATION

#### 2.1. Classification of the substance or mixture:

Not classified according to HCS (29 CFR 1910.1200)

#### 2.2. Label elements:

**Hazard pictogram(s):** Not applicable.  
**Signal word:** Not applicable.  
**Hazard statement(s):**  
**Precautionary statement(s):**

- General:** Not applicable.
- Prevention:** Not applicable.
- Response:** Not applicable.
- Storage:** Not applicable.
- Disposal:** Refer to manufacturer or supplier for information on recovery or recycling. (P502)

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances:

Not applicable. This product is a mixture.

### 3.2. Mixtures:

Product/substance	Identifiers	% w/w	Classification	Note
Water	CAS No.: 7732-18-5	65-75%		
Monopropylene glycol	CAS No.: 57-55-6	23-27%		

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information:

-

## SECTION 4: FIRST-AID MEASURES

### 4.1. Description of first aid measures:

#### General information:

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact:

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### Eye contact:

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

#### Ingestion:

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### Burns:

Not applicable.

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

None known.

### 4.3. Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

### Information to medics:

Bring this safety data sheet or the label from this product.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media:

Not applicable.

### 5.2. Special hazards arising from the substance or mixture:

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. Advice for firefighters:

No specific requirements.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures:

Contaminated areas may be slippery.

### 6.2. Environmental precautions:

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections:

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling:

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities:

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Recommended storage material:** Always store in containers of the same material as the original container.

**Liquid class:** Combustible Liquid / Class IIIB (NFPA 30)

**Storage conditions:** No specific requirements.

**Incompatible materials:** Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s):

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters:

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

### 8.2. Exposure controls:

Apply general control to prevent unnecessary exposure

- General recommendations:** Smoking, drinking and consumption of food is not allowed in the work area.
- Exposure scenarios:** There are no exposure scenarios implemented for this product.
- Exposure limits:** Occupational exposure limits have not been defined for the substances in this product.
- Appropriate technical measures:** Apply standard precautions during use of the product. Avoid inhalation of vapours.
- Hygiene measures:** In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.
- Measures to avoid environmental exposure:** No specific requirements.

**Individual protection measures, such as personal protective equipment:**

- Generally:** No specific requirements.
- Respiratory Equipment:** No specific requirements.
- Skin protection:** No specific requirements.
- Hand protection:** No specific requirements.
- Eye protection:** No specific requirements.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties:**

- Physical state:** Liquid
- Color:** Clear
- Odor:** No data available
- Odor threshold (ppm):** No data available
- pH:** 7.5-9
- pH in solution:** Test method: ASTM E 70-07
- Density (g/cm<sup>3</sup>):** 1.022 (20 °C)
- Kinematic viscosity:** 2.7 mm<sup>2</sup>/s (20 °C)
- Dynamic viscosity:** 2.73 mPa.s
- Particle characteristics:** No data available

**Phase changes:**

- Melting point/freezing point (°F):** 12.9
- Melting point/freezing point (°C):** -10.6
- Softening point/range (°F):** Does not apply to liquids.
- Boiling point (°F):** 219
- Boiling point (°C):** 104
- Vapor pressure:** No data available
- Relative vapor density:** No data available
- Decomposition temperature (°F):** No data available

**Data on fire and explosion hazards:**

- Flash point (°F):** -

**Flash point (°C):** 116  
**Flammability (°F):** No data available  
**Auto-ignition temperature (°F):** No data available  
**Explosion limits (% v/v):** No data available

**Solubility:**

**Solubility in water:** No data available  
**n-octanol/water coefficient (LogKow):** No data available  
**Solubility in fat (g/L):** No data available

**9.2. Other information:**

**Acid/alkaline reserve:** >3 ml 0.1N NCL/10ml  
**Evaporation rate (n-butylacetate = 100):** No data available  
**Other physical and chemical parameters:** No data available.  
**Refractive Index:** 1.3628-1.3641  
**Oxidizing properties:** No data available

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity:**

No data available.

**10.2. Chemical stability:**

The product is stable under the conditions, noted in section 7 "Handling and storage".

**10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies:**

None known.

**10.4. Conditions to avoid:**

None known.

**10.5. Incompatible materials:**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects:**

**Acute toxicity:**

Product/substance: Monopropylene glycol  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 22000 mg/kg

Product/substance: Monopropylene glycol  
 Species: Rabbit

Route of exposure: Dermal  
Result: >2000 mg/kg

Based on available data for the mixture, the classification criteria are not met.

**Skin corrosion/irritation:**

Product/substance Monopropylene glycol  
Result: No data available or data is not sufficient for classification.

Based on available data for the mixture, the classification criteria are not met.

**Serious eye damage/irritation:**

Product/substance Monopropylene glycol  
Result: No data available or data is not sufficient for classification.

Based on available data for the mixture, the classification criteria are not met.

**Respiratory sensitisation:**

Product/substance Monopropylene glycol  
Result: For the components(s), either no data are available or the data are not sufficient for the classification.

Based on available data for the mixture, the classification criteria are not met.

**Skin sensitisation:**

Product/substance Monopropylene glycol  
Result: For the components(s), either no data are available or the data are not sufficient for the classification.

Based on available data for the mixture, the classification criteria are not met.

**Germ cell mutagenicity:**

Product/substance Monopropylene glycol  
Conclusion: No data available or the data not sufficient for classification.

Based on available data for the mixture, the classification criteria are not met.

**Carcinogenicity:**

Product/substance Monopropylene glycol  
Conclusion: No data available or the data not sufficient for classification.

Based on available data for the mixture, the classification criteria are not met.

**Reproductive toxicity:**

Product/substance Monopropylene glycol  
Conclusion: No data available or the data not sufficient for classification.

Based on available data for the mixture, the classification criteria are not met.

**STOT-single exposure:**

Product/substance Monopropylene glycol  
Conclusion: No data available or the data not sufficient for classification.

Based on available data for the mixture, the classification criteria are not met.

**STOT-repeated exposure:**

Product/substance Monopropylene glycol  
Conclusion: No data available or the data not sufficient for classification.

Based on available data for the mixture, the classification criteria are not met.

**Aspiration hazard:**

Product/substance Monopropylene glycol

Conclusion: No data available or the data is not sufficient for classification.

Based on available data for the mixture, the classification criteria are not met.

**Long term effects:**

None known.

**Other information:**

None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity:**

Product/substance Monopropylene glycol  
 Species: Fish, Oncorhynchus mykiss  
 Test: LC50  
 Result: 40613

Based on available data for the mixture, the classification criteria are not met.

**12.2. Persistence and degradability:**

Product/substance Monopropylene glycol  
 Conclusion: Readily biodegradable

**12.3. Bioaccumulative potential:**

Product/substance Monopropylene glycol  
 Conclusion: Potential for bioaccumulation is low  
 Test: OECD 117

**12.4. Mobility in soil:**

No data available.

**12.5. Results of PBT and vPvB assessment:**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects:**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**RCRA Hazardous waste ("P" and "U" list) (40 CFR 261):**

None of the components are listed

**Specific labelling:**

**Contaminated packing:**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: TRANSPORT INFORMATION**

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

**Additional information:**

Not dangerous goods according to DOT, IATA and IMDG.

**14.6. Special precautions for user:**

Not applicable.

**14.7. Transport in bulk according to IMO instruments:**

No data available.

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**15.2. U.S. Federal regulations:**

**TSCA (the non-confidential portion):** None of the components are listed

**Clean Air Act:** None of the components are listed

**EPCRA Section 302:** None of the components are listed

**EPCRA Section 304:** None of the components are listed

**EPCRA section 313:** None of the components are listed

**CERCLA:** None of the components are listed

**Hazardous chemical inventory reporting:** This product is not subject to Tier II reporting.

**State regulations:**

**California / Prop. 65:** None of the components are listed

**Massachusetts / Right To Know Act:** None of the components are listed

**New Jersey / Right To Know Act:** None of the components are listed

**New York / Right To Know Act:** None of the components are listed

**Pennsylvania / Right To Know Act:** None of the components are listed

**15.4. Restrictions for application:**

Industrial use only.

**15.5. Demands for specific education:**

No specific requirements.

**15.6. Additional information:**

Not applicable.

**15.7. Chemical safety assessment:**

No

### 15.8. Sources:

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: OTHER INFORMATION

### The full text of identified uses as mentioned in section 1:

None known.

### Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### Additional information:

Not applicable.

### The safety data sheet is validated by:

TMC Industries - QC Department

### Other:

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle. The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en