

SAFETY DATA SHEET

TMC-7500 Engineered Fluid

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

Trade name:	TMC-7500 Engineered Fluid
Other names / Synonyms:	3-ethoxy-1,1,1,2,3,4,4,5,5,6,6-dodecafluoro-2-(trifluoromethyl)-hexane
Product no.:	7500, 7500-B, 7500-2.2, 7500-12, 7500-44, 7500-550
REACH registration number:	01-0000018188-64-XXXX
▼ Other means of identification:	EC No.: 435-790-1 CAS No.: 297730-93-9
Unique formula identifier (UFI):	YC39-V1M1-75N2-5R3N

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

Relevant identified uses of the substance or mixture:	Heat Transfer Fluid Restricted to professional and industrial use.
Uses advised against :	Not Intended for Use as Medical Device or Drug.

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
▼ Revision:	10/09/2026
▼ SDS Version:	9.0
▼ Date of previous version:	10/08/2026 (8.0)

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: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

2.2. Label elements:

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

Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Refer to the manufacturer/supplier for information on disposal/ recovery/ recycling. (P503)
Hazardous substances:	3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-hexane
Additional labelling:	UFI: YC39-V1M1-75N2-5R3N

2.3. Other hazards:

Additional warnings:	This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.
-----------------------------	--

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. ▼ Substances:

Product/substance	Identifiers	% w/w	Classification	Note
3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-hexane	CAS No.: 297730-93-9 EC No.: 435-790-1 REACH: 01-0000018188-64-XXXX Index No.:	>99%	Aquatic Chronic 4, H413	

3.2. Mixtures:

Not applicable. This product is a substance.

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:	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. 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: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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:

Halogenated compounds

Carbon oxides (CO / CO₂)

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:	Metal Container. Glass Container
Storage conditions:	Keep container tightly closed
Incompatible materials:	Bases Strong oxidizing 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 in the national list of substances with an occupational exposure limit.

Own set exposure limits:

3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-hexane

Long term exposure limit (8 hours) (ppm): TWA: 100

DNEL:

No data available.

PNEC:

No data available.

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: Use only CE marked protective equipment.

Respiratory Equipment:

Work situation	Type	Class	Colour	Standards	
When the product is subjected to extreme heat, HF may be formed.	Positive pressure supplied air respirator.				

Skin protection:

Recommended	Type/Category	Standards	
No specific requirements.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
When the product is subjected to extreme heat, HF may be formed.	Chemical Resistant gloves				

Eye protection:

Type	Standards	
No specific requirements	-	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Colourless
Odour / Odour threshold:	Characteristic
pH:	Not applicable
Density (g/cm³):	1.62 (20 °C)
Kinematic viscosity:	0.8 centistokes (25 °C)
Particle characteristics:	Not applicable

Phase changes:

Melting point/Freezing point (°C):	-100
Softening point/range (°C):	Does not apply to liquids.
Boiling point (°C):	128
Vapour pressure:	2 kPa
Relative vapour density:	14.3
Decomposition temperature (°C):	No data available

Data on fire and explosion hazards:

Flash point (°C):	No flash point
Flammability (°C):	Not flammable
Auto-ignition temperature (°C):	330
Lower and upper explosion limit (% v/v):	1.8 - 15 Test method: EN ISO 1839
Lower and upper explosion limit (mg/m³):	Test method: EN ISO 1839

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:

Evaporation rate (n-butylacetate = 100):	No data available
---	-------------------

Other physical and chemical parameters: No data available.

Molecular Weight (g/mol): 414

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:

None known.

10.4. Conditions to avoid:

Sparks and/or flames

10.5. Incompatible materials:

Keep Away from heat, sparks and open flame

Bases

Keep in properly labeled containers

Comply with laws.

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 hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory sensitization:

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

Skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

Symptoms related to the physical, chemical and toxicological characteristics:

None known.

11.2. Information on other hazards:**Endocrine disrupting properties:**

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information:

None known.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity:**

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

12.2. Persistence and degradability:

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

12.3. Bioaccumulative potential:

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

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. Endocrine disrupting properties:

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects:

None known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods:**

This material can be reclaimed by the manufacturer if required or disposed of at an approved facility according to local regulations.

Product is not covered by regulations on dangerous waste.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code: Not applicable.

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 information:
ADR/A DN/RID	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

*** UN number or ID number

Additional information:

Not dangerous goods according to ADR/ADN/RID, IATA and IMDG.

14.6. Special precautions for user:

Not applicable.

14.7. Maritime 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:

Restrictions for application: Restricted to professional users.

Demands for specific education: No specific requirements.

SEVESO - Categories / dangerous substances: Not applicable.

Additional information: Not applicable.

Sources: Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment:

No

SECTION 16: OTHER INFORMATION

▼ Full text of H-phrases as mentioned in section 3:

H413, May cause long lasting harmful effects to aquatic life.

Abbreviations and acronyms:

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
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EC = Effective concentration
ED = Effective dose
EINECS = European Inventory of Existing Commercial chemical Substances
EL = Effective Loading
ErC = Concentration associated with x% growth rate response
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
HP = Hazardous Property code
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IC = X maximum inhibitory concentration
IMDG = International Maritime Dangerous Goods
LC = Lethal concentration
LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans
LD = Lethal dose
LOAEC = Lowest Observed Adverse Effect Concentration
LOAEL = Lowest Observed Adverse Effect Level
LOEC = Lowest Observed Effect Concentration
LogKow = logarithm of the n-octanol/water coefficient
LL = Lethal Loading
M = For multiplication factor
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
("Marpol" = marine pollution)
NOAEC = No Observed Adverse Effect Concentration
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOELR = No Observable Effect Loading Rate
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = 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: FR-en