

# SAFETY DATA SHEET

## TMC-7500

### SECTION 1: IDENTIFICATION

#### 1.1. Product identifier:

**Trade name:** TMC-7500  
**Product no.:** 7520, 7520-12, 7520-44, 7520-550  
**Other means of identification:** CAS No.: 297730-93-9

#### 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 users.  
**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  
**SDS date:** 5/22/2024  
**SDS Version:** 1.0

#### 1.4. Emergency telephone number:

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case  
See also section 4 "First aid measures".  
Emergency Telephone Number: CHEMTREC 24-HR Emergency USA, Canada, Puerto Rico, US Virgin Islands (800) 424-9300.

### 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):**



**Signal word:** Danger

**Hazard statement(s):**

**Precautionary statement(s):**

**General:** Keep out of reach of children. (P102)

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

	smoking. (P210) Do not allow contact with air. (P222) Wear protective gloves/protective clothing/eye protection/face protection. (P280) Avoid release to the environment. (P273)
<b>Response:</b>	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. (P377) In case of leakage, eliminate all ignition sources. (P381)
<b>Storage:</b>	Store in a well-ventilated place. (P403)
<b>Disposal:</b>	Refer to manufacturer or supplier for information on recovery or recycling. (P502)
<b>Hazards not otherwise classified (HNOC):</b>	In use may form flammable/explosive vapour-air mixture. Causes eye irritation Causes mild skin irritation May be harmful if swallowed May be harmful if inhaled Repeated exposure may cause skin dryness or cracking.
<b>Additional labelling:</b>	Not applicable.

### 2.3. Other hazards:

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

## 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	100%		

### 3.2. Mixtures:

Not applicable. This product is a substance.

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:

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## SECTION 4: FIRST-AID MEASURES

### 4.1. Description of first aid measures:

<b>General information:</b>	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.
<b>Inhalation:</b>	In case of discomfort: bring the person into fresh air.
<b>Skin contact:</b>	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
<b>Eye contact:</b>	Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do.

**Ingestion:** Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help. Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.

**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.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**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 / CO<sub>2</sub>)

**5.3. Advice for firefighters:**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

Fire fighters should wear appropriate personal protective equipment.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**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.

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## SECTION 7: HANDLING AND STORAGE

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**7.1. Precautions for safe handling:**

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

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:**

- Recommended storage material:** Keep only in original packaging.
- Storage temperature:** 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 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:** Wash hands after use.
- Measures to avoid environmental exposure:** No specific requirements.

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

**Generally:** Use only protective equipment with a recognized certification mark, e.g. the UL mark.


**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:

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	None
<b>Odour threshold (ppm):</b>	No data available
<b>pH:</b>	Not applicable
<b>Density (g/cm<sup>3</sup>):</b>	1.62 (68 °F)
<b>Kinematic viscosity:</b>	0.8 cPs (77 °F)
<b>Particle characteristics:</b>	Not applicable

### Phase changes:

<b>Melting point (°F):</b>	-212
<b>Melting point (°C):</b>	-100
<b>Softening point/range (waxes and pastes) (°F):</b>	Does not apply to liquids.
<b>Boiling point (°F):</b>	262.4
<b>Boiling point (°C):</b>	128
<b>Vapour pressure:</b>	2 kPa
<b>Relative vapour density:</b>	14.3
<b>Decomposition temperature (°F):</b>	No data available

### Data on fire and explosion hazards:

<b>Flash point (°F):</b>	No data available
<b>Flammability (°F):</b>	No data available
<b>Auto-ignition temperature (°F):</b>	626
<b>Auto-ignition temperature (°C):</b>	330
<b>Explosion limits (% v/v):</b>	No data available

### Solubility:

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

### 9.2. Other information:

<b>Evaporation rate (n-butylacetate = 100):</b>	No data available
<b>Other physical and chemical parameters:</b>	No data available.
<b>Molecular Weight (g/mol):</b>	414
<b>Oxidizing properties:</b>	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:**

The product is not degraded when used as specified in section 1.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**11.1. Information on toxicological effects:**

**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 sensitisation:**

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.

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

**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.

**Long term effects:**

None known.

**Other information:**

None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity:**

No data available.

**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. Other adverse effects:**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods:**

This material can be reclaimed by TMC Industries. Contact TMC for more information.

**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 information:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
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 Annex II of Marpol and the IBC Code:**

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

**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

**NFPA:**

Health hazard: 3

Fire hazard: 1

Instability hazard: 0

Specific hazard: None

**15.4. Restrictions for application:**

Restricted to professional users.

**15.5. Demands for specific education:**

No specific requirements.



Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

#### 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:

In accordance with HCS (29 CFR 1910.1200(g)), a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information.  
The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

Conforms to OSHA Hazard Communication Standard (HCS) (29  
CFR 1910.1200 / revised 2012)

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**The safety data sheet is validated by:**

TMC Industries, Inc. - 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