

Safety Data Sheet

(SDS)

Chemicals name	TF-7500 Fluorinated Engineering Fluid		
SDS NO.	AD/Q-S-008-2022	Version	4.0
Issue Date	12/01/2023	Previous Date	05/04/2023
Editor	Vivian Zhang	Approved by	Julius Chou
Revision information	Product name change		

Safety Data Sheet

Supersedes Date: 05/04/2023

Issue Date: 12/01/2023

SECTION 1: Chemical and manufacturer data

1.1. Product identifier

AD-7500 Fluorinated Engineering Fluid

1.2. Name, address and telephone number of manufacturer, importer or supplier

Manufacturer: Nantong A.D Dawning Materials Co. Ltd.**Address:** No.198 Jiangsu Road,, Qidong Life and Health Industrial Park, Nantong City, Jiangsu Province, China**Telephone:** +86 130 0417 0543 / +86 186 1651 4635

1.3. Emergency contact number/fax number/email address

Emergency contact number: +86 130 0417 0543 / +86 186 1651 4635**Fax number:** +86 21 58682568**Email address:** / vivianzhang@megachemistry.cn

1.4. Recommended use and restrictions on use

For Industrial Use Only.

Not Intended for Use as a Medical Device or Drug. Not intended for any food contact use.

Please contact for further information.

SECTION 2: Hazards identification

2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. Label Elements

Signal word:

Not applicable.

Symbols:

Not applicable.

Pictograms:

Not applicable.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-trifluoromethyl-hexane	297730-93-9	100

SECTION 4: First aid measures

4.1. Description of First Aid Measures

Inhalation:

No need for first aid.

Skin contact:

No need for first aid.

Eye contact:

No need for first aid.

If Swallowed:

No need for first aid.

4.2. Most Important Symptoms/Effects, Acute and Delayed.

No critical symptoms or effects.

4.3. Indication of Immediate Medical Attention and Special Treatment Needed

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a firefighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Exposure to extreme heat can result in thermal decomposition.

5.3. Hazardous Decomposition or By-Products

Carbon monoxide, carbon dioxide and hydrogen fluoride are expected to be the deposition products during the combustion at elevated temperature.

5.4. Special Protective Equipment and Precautions for Fire-fighters

If in case a fire happens, wear full protective clothing, including helmet, positive pressure or pressure demand breathing apparatus, special coat and pants to cover arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ventilate the area with fresh air. Evacuate if needed.

6.2. Environmental Precautions

Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

Working from the edges of the spill inward, cover with commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Place in a closed container approved by appropriate authorities. Dispose of collected material as soon as possible in accordance with applicable regulations.

SECTION 7: Handling and storage

7.1. Precautions for Safe Handling

For industrial use only. Do not breathe thermal decomposition products. Avoid release to the environment. Avoid contact with oxidizing agents. No eating and smoking when handling the product.

7.2. Conditions for safe storage including any incompatibilities

Store away from strong bases. Store away from oxidizing agents. Store in a tightly closed original container.

SECTION 8: Exposure controls/personal protection

8.1. Control Parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Limit type*
3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-trifluoromethyl-hexane	297730-93-9	TWA:100 ppm

Manufacturer determined

TWA: Time-Weighted-Average

8.2. Exposure controls

8.2.1. Engineering Controls

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Hands/ Skin protection

Chemical protective gloves are not required under normal use conditions. However, when the product is subjected to extreme heat, HF may be formed. For those cases, neoprene gloves and apron are recommended.

Respiratory protection

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied air respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Colorless
Odor	Odorless
Odor threshold	No Data Available
pH	Not Applicable
Melting point	-100 °C
Boiling Point	127-129 °C
Flash Point	No Flash Point
Evaporation rate	No Data Available
Flammability (solid, gas)	Not Applicable
Flammable Limits (LEL)	No Data Available
Flammable Limits (UEL)	No Data Available
Vapor Pressure	No Data Available
Vapor Density	No Data Available
Density	1.62 g/ml [@ 20 °C]
Solubility in Water	No Data Available
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	330 °C
Decomposition temperature	No Data Available

Viscosity	1.2 cP at 25 °C
Average Molecular weight	414 g/mole
Volatile Organic Compounds	Exempt
Percent volatile	100%
VOC Less H2O & Exempt Solvents	Exempt

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with strong acids, strong bases, and strong oxidizers under certain conditions.

10.2. Chemical Stability

Stable.

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Flames.

10.5. Incompatible Materials

Strong bases.

10.6. Hazardous Decomposition products

Carbon monoxide, carbon dioxide and hydrogen fluoride are the possible decomposition products during the combustion at elevated temperatures

If the product is exposed to extreme condition of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

SECTION 11: Toxicological information

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on data and information on the components, this material may produce the following health effects:

Inhalation:

No known health effects.

Skin Contact:

No significant irritation.

Eye Contact:

No significant irritation.

Ingestion:

No known health effects.

Toxicological Data:

Not classified as hazardous. Please contact the address or phone number listed on the first page for detail information.

Please contact A. D Dawning Material at the address or phone number listed on the first page of this SDS for additional information on this material.

SECTION 12: Ecological information

12.1. Ecotoxicological information

Ecotoxicity	No data available
Persistence and degradability	This material may be persistence
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	No known effects

Please contact A. D Dawning Materials for additional information.

SECTION 13: Disposal considerations

Dispose of the product in accordance with the local and national regulations. Consult local authorities and regulations to ensure proper classification. Dispose of waste product in a permitted industrial waste facility. Combustion products will include HF. Facility must be capable of handling HF. Empty and clean product containers may be disposed as non-hazardous waste. Consult your local regulations and service providers to determine available options and requirements.

SECTION 14: Transport Information

Not regulated per, IATA, IMO, or U.S. DOT.

For Transport Information, please Contact A.D Dawning Materials for more information.

SECTION 15: Regulatory information

15.1. Chemical Inventories

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Contact A.D Dawning for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact A. D Dawning for other international chemical inventories.

15.2. International Regulations

Contact A.D Dawning for more information.

SECTION 16: Other information

16.1. Revision date

2023/11/30

16.2. Previous date

2023/05/04

16.3. According to the standard

UN "Globally Harmonized System of Classification and Labelling of Chemicals" (Rev.9)

16.4. Disclaimer

This Safety Data Sheet (SDS) is revised by Nantong A. D Material Co. Ltd and issued on 12/01/2023. The Previous version was created on 05/04/2023. The information in this Safety Data Sheet (SDS) is prepared as accurate as possible based on our knowledge of the date issued. Users of SDS should judge the applicability of relevant information according to the actual situation.