



Material Safety Data Sheet

TEMAc-10 Perfluorodecyl Ethyl Methacrylate

Revised 03- November-2009

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product name: TEMAc-10
Chemical name: Perfluorodecyl ethyl methacrylate
1H, 1H, 2H, 2H-Henicosafuorododecyl-1-methacrylate
Chemical formula: $\text{CH}_2=\text{C}(\text{CH}_3)\text{C}(\text{O})\text{OCH}_2\text{CH}_2(\text{CF}_2\text{CF}_2)_5\text{F}$
 $\text{C}_{16}\text{H}_9\text{F}_{21}\text{O}_2$

Company Identification

Distributor Top Fluorochem Co., Ltd.
Building C2, 3rd Floor
479 Chun Dong Road
XinZhuang Industrial Park
Minhang District
Shanghai, P. R. China 201108

Manufacturer Fuxin Hengtong Fluorine Chemicals Co., Ltd.
Fuxin Chemicals Community
West Pingan St.
Haizhou District
Fuxin City, Liaoning Province, P. R. China

Emergency Call +86-21-54833399

2. COMPOSITION AND INFORMATION ON COMPONENTS

Material	Molecular Weight	Weight Percent	EINECS #	CAS #
Perfluorodecyl ethyl methacrylate	632.21		NA	2144-54-9
2,6-Di- <i>tert</i> -butyl-4-methylphenol	220.35	30 ppm	204-881-4	128-37-0

3. HAZARDS IDENTIFICATION

Emergency Overview

Caution: Irritating to eyes, respiratory system and skin.

For additional information on toxicity, please refer to Section 11.

4. FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure:	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Dermal Exposure:	In case of contact, immediately wash skin with soap and copious amounts of water.
Eye Exposure:	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash point:	> 110 °C (closed cup)
Autoignition temp:	N/A
Flammability:	N/A

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Fire fighting instructions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazard(s): Emits toxic fumes under fire conditions including hydrogen fluoride and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Clean-Up Procedures: Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Requirements: Do not breathe vapor. Avoid contact with eyes, skin, and clothing.

Storage Conditions: Keep tightly closed. Store at 4 to 8 °C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Eye: Chemical safety goggles.

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand protection: Compatible chemical-resistant gloves.

General Hygiene Measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight	632.21 g/mol
pH	3 to 5
Boiling Point	104 °C @ 1 mm Hg
Melting Point	45 to 50 °C
Vapor Pressure	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
Specific Gravity/Density	Not available
Bulk Density	Not available
Odor Threshold	Not available
Flash Point	> 110 °C
Explosion Limits	Not available
Refractive Index	Not available
Water Solubility	Negligible

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Materials to Avoid:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	In combustion, emits toxic fumes including carbon monoxide, carbon dioxide, and hydrogen fluoride.
Hazardous Polymerization Reactions:	Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Check inhibitor content often adding to melted bulk liquid if needed.

11. TOXICOLOGICAL INFORMATION

Route Of Exposure	
Skin contact:	Causes skin irritation.
Multiple routes:	Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.
Signs And Symptoms Of Exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

No data available.

General:	Take care to prevent chemicals from entering the ground, water courses or drainage systems.
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13. DISPOSAL CONSIDERATIONS

Disposal Operations:

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. TRANSPORTATION INFORMATION

Mode	DOT/IMDG/IATA
UN Number	None. Non-hazardous for transport.
Class (Subsidiary)	None. Non-hazardous for transport.
Proper Shipping Name	None. Non-hazardous for transport.
Hazard Label (Subsidiary)	None. Non-hazardous for transport.
Packing Group	None. Non-hazardous for transport.
Shipping Hazard Label	None. Non-hazardous for transport.

15. REGULATORY INFORMATION

EU Additional Classification
Symbol of Danger:

Xi



Indication of Danger:

Irritant.

R:

36/37/38

Risk Statements:

Irritating to eyes, respiratory system and skin.

S:

26-36

Safety Statements:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

Us Classification And Label Text
Indication of Danger:

Irritant.

Risk Statements:

Irritating to eyes, respiratory system and skin.

Safety Statements:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

United States Regulatory Information
SARA Listed:

No

Canada Regulatory Information
WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL:

Yes

NDSL:

No

16. OTHER INFORMATION

Legal Disclaimer:

For R&D use only. Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product

and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

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End of MSDS