

**Krytox® 157FS Oils**

Version 2.0

Revision Date 10/07/2009

Ref. 150000002944

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Krytox® 157FS Oils
Product Grade/Type : 157: FSL, FSM, FSH
Tradename/Synonym : Fluoroguard FSM
MSDS Number : 150000002944
Product Use : Lubricant
Manufacturer : DuPont
1007 Market Street
Wilmington, DE 19898
Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)
Other information : professional use

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Potential Health Effects

Eyes

Fluorocompound : May cause eye irritation. tearing, Discomfort.

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Fluorocompound		100 %

SECTION 4. FIRST AID MEASURES

Skin contact : Wash with water and soap as a precaution.
Eye contact : Rinse with plenty of water. If eye irritation persists, consult a specialist.
Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or

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combustion.

Ingestion : Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

General advice : When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable Properties

Flash point : Method : Pensky-Martens open cup - PMOC
does not flash

Thermal decomposition : 170 - 200 °C (338 - 392 °F)

Fire and Explosion Hazard : In fire conditions, toxic decomposition products may be formed.

Suitable extinguishing media : The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Firefighting Instructions : Wear self-contained breathing apparatus and protective suit. Standard procedure for chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Refer to protective measures listed in sections 7 and 8.

Spill Cleanup : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Accidental Release Measures : Do not let product enter drains.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Avoid breathing vapors from overheated material. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. General industrial hygiene practice.

Storage : No special storage conditions required. Keep container closed to prevent contamination. No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	: In the event that the polymer is heated above 350 °C (662 °F), local ventilation should be used to avoid exposure to fumes.
Personal protective equipment	
Respiratory protection	: No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.
Hand protection	: Additional protection: Impervious gloves
Eye protection	: Safety glasses
Skin and body protection	: No PPE is specified however, avoid contact with skin, eyes, and clothing. Preventive skin protection
Exposure Guidelines	
Exposure Limit Values	
None established.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: viscous liquid
Color	: light amber
Odor	: none
pH	: acidic
Specific Gravity	: ca. 1.9
Water solubility	: insoluble

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Decomposition temperature 350 °C (662 °F)
Hazardous decomposition products	: Hazardous thermal decomposition products: Fluorinated compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Fluorocompound	
Dermal LD50	: > 5,000 mg/kg, rat
Oral LD50	: > 5,000 mg/kg, rat
Skin irritation	: Species: rabbit Not classified as irritant, slight irritation
Eye irritation	: Species: rabbit Irritating to eyes., Mild eye irritation

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Skin sensitization : Species: mouse, Causes sensitization.

Repeated dose toxicity : Oral - gavage, rat 1,000 mg/kg
Organ weight changes

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

SECTION 12. ECOLOGICAL INFORMATION**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : In accordance with local and national regulations.

Environmental Hazards : Dispose of container properly.
If recycling is not practicable, dispose of in compliance with local regulations.**SECTION 14. TRANSPORT INFORMATION**

Not regulated in transportation by DOT/IMO/IATA.

SECTION 15. REGULATORY INFORMATION

TSCA Status : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

MSDS preparation date : 10/07/2009

Restrictions for use : Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

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Contact person : MSDS Coordinator, DuPont Chemical Solutions Enterprise, Wilmington, DE 19898, (800) 441-7515



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