

**Krytox™ 157FS Oils**

Version 3.0

Revision Date 10/13/2015

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
Tradename/Synonym	:	Fluoroguard FSM
Product Grade/Type	:	157: FSL, FSM, FSH
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Product Use	:	Lubricant, For industrial use only.
Restrictions on use	:	Do not use product for anything outside of the above specified uses
Manufacturer/Supplier	:	The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19899 United States of America
Product Information	:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)
Medical Emergency	:	1-866-595-1473 (outside the U.S. 1-302-773-2000)
Transport Emergency	:	CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)
Other information	:	professional use

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Serious eye damage/eye irritation	Category 2B
Skin sensitisation	Category 1



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Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.
Causes eye irritation.

Hazardous prevention measures : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons., Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Fluorocompound		100 %

SECTION 4. FIRST AID MEASURES

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
- Skin contact : Wash off with soap and plenty of water.
- Eye contact : Rinse with plenty of water. If eye irritation persists, consult a specialist.
- 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.
- Most important symptoms/effects, acute and delayed : No applicable data available.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

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- Suitable extinguishing media : The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : No applicable data available.
- Specific hazards : In fire conditions, toxic decomposition products may be formed. (see also section 10)
- Special protective equipment for firefighters : Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.
- Further information : 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) : No applicable data available.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Spill Cleanup : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Accidental Release Measures : No applicable data available.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Avoid breathing vapors from overheated material. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. General industrial hygiene practice.
- Handling (Physical Aspects) : No applicable data available.



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- Dust explosion class : No applicable data available.
- Storage : No special storage conditions required. Keep container closed to prevent contamination.
No decomposition if stored and applied as directed.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

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
- Fluorocompound
No applicable data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance

Physical state : liquid
Form : viscous liquid
Color : clear, amber, dark grey

Odor : none

Odor threshold : No applicable data available.

pH : acidic

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

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

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Specific gravity (Relative
density) : ca. 1.9

Water solubility : insoluble

Solubility(ies) : No applicable data available.

Partition coefficient: n-
octanol/water : No applicable data available.

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Auto-ignition temperature	:	No applicable data available.
Decomposition temperature	:	170 - 200 °C
Viscosity, kinematic	:	No applicable data available.
Viscosity, dynamic	:	No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No applicable data available.
Conditions to avoid	:	Temperature > 350 °C (> 662 °F)
Incompatible materials	:	No applicable data available.
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
Oral LD50	:	> 5,000 mg/kg , Mouse
Skin irritation	:	slight irritation, Rabbit
Eye irritation	:	Mild eye irritation, Rabbit
Skin sensitization	:	Causes sensitisation., Mouse

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Repeated dose toxicity : Oral - gavage
Rat
-
NOAEL: 1,000 mg/kg
No toxicologically significant effects were found.

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

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

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 12. ECOLOGICAL INFORMATION

Additional ecological information : No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : In accordance with local and national regulations.

Contaminated packaging : Dispose of container properly.
If recycling is not practicable, dispose of in compliance with local regulations.

SECTION 14. TRANSPORT INFORMATION



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Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

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

California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

SECTION 16. OTHER INFORMATION

Restrictions for use : Do not use Chemours 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 Chemours under a written contract that is consistent with Chemours policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your Chemours representative. You may also request a copy of the Chemours POLICY Regarding Medical Applications and Chemours CAUTION Regarding Medical Applications.

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Significant change from previous version is denoted with a double bar.



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