

Version 0.0

Revision Date 04/03/2015 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 : DuPont™ Krytox® 157FS Oils

Tradename/Synonym : Fluoroguard FSM

Product Grade/Type : 157: FSL, FSM, FSH

Product Use : Lubricant, For industrial use only.

Restrictions on use : Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : DuPont

1007 Market Street Wilmington, DE 19898 United States of America

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

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration



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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.

: No applicable data available.

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

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

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)



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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.

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

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)

Dust explosion class

Storage period

: No applicable data available. : No applicable data available.

: No applicable data available.

: No special storage conditions required. Keep container closed to prevent Storage

> contamination. No decomposition if stored and applied as directed.

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.



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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.

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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



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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.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : 170 - 200 °C

Viscosity, kinematic : No applicable data available.

Viscosity : 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 : Hazardous thermal decomposition products:

6/9



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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

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.

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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

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 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 and DuPont

CAUTION Regarding Medical Applications.

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Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE

19898, (800) 441-7515

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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