



Krytox® PFPE Oils

Version 2.1

Revision Date 01/22/2010

Ref. 15000000934

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® PFPE Oils
 Product Grade/Type : GPL: 100, 101, 102, 103, 104, 105, 106, 107, 107-500
 VPF: 1506, 1514, 1525, 1525S, 1531, 1531E, 1618, 1645, 16256, 16350
 CBF: 100A, 100B, 103B
 GBO: 14, 25
 XHT- : 500, 750, 1000
 FG: 10, 12, 15, 40, 45
 AUT 1045
 4442, 4402, TFO, TLC, NBF140
 TLF 8996

MSDS Number : 15000000934
 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

The product as such is not hazardous. Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

Potential Health Effects

Eyes

Perfluoropolyether : May irritate eyes.

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
Perfluoropolyether		100 %

SECTION 4. FIRST AID MEASURES

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- 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 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.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable Properties

- Flash point : Method : Pensky-Martens closed cup - PMCC
does not flash
- Thermal decomposition : ca. 350 °C (662 °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.
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	: colourless
Odor	: none
pH	: neutral
Pour point	: -55 - -15 °C (-67 - 5 °F)
Specific Gravity	: ca. 1.86 - 1.91 at 24 °C (75 °F)
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

Perfluoropolyether	
Dermal ALD	: ca. > 17,000 mg/kg, rabbit
Oral LD50	: > 37,400 mg/kg, rat
Inhalation 4 h ALC	: ca. > 19.54 mg/l, rat

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Skin irritation	:	Species: human Patch test non-irritant
Eye irritation	:	Species: rabbit Draize Test non-irritant
Skin sensitization	:	Species: human, Patch test on human volunteers did not demonstrate sensitization properties. Modified Draize Test
Mutagenicity	:	Did not cause genetic damage in cultured bacterial cells.
Further information	:	The substance is a polymer and is not expected to produce toxic effects.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
Perfluoropolyether
96 h LC50

: Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l
Aquatic toxicity is unlikely due to low solubility.

48 h static test EC50

: Daphnia magna (Water flea) > 1,000 mg/l No information available.

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 classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA Status

: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

MSDS preparation date

: 01/22/2010



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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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