

Version 3.4

Revision Date 08/06/2010 Ref. 150000000932

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 Oil with Soluble Additive

Product Grade/Type : XP-1: A0, A1, A2, A3, A4, A5, A6, A7, A7-500

VPF: 1506XP, 1514XP, 1525XP, 1531XP

FG 50, NRT 8805, R9A1, ACW

MSDS Number : 150000000932

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

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.

Potential Health Effects

Skin : May cause allergic skin reaction. Itching, Rash, Swelling.

Eyes : May cause eye irritation. Discomfort, tearing, Blurred vision.

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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Perfluoropolyether		95 - 100 %
Proprietary Additive		0 - 5 %

SECTION 4. FIRST AID MEASURES

Skin contact : Wash off with soap and plenty of water.

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.

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 closed cup - PMCC

does not flash

Thermal decomposition : 350 °C (662 °F)

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

section 10)

Suitable extinguishing media : The product itself does not burn.



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Use extinguishing measures that are appropriate to local circumstances and

the surrounding environment.

Firefighting Instructions : Wear self-contained breathing apparatus (SCBA). Wear suitable protective

equipment.

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.

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

universal binder, sawdust).

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas.

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.

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

contamination.

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : In the event that the polymer is heated above 350 ℃ (662 ℉), 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.

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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 : colourless
Odor : none
pH : neutral

Pour point : < -70 - -30 °C (-94 - -22 °F)

Specific Gravity : ca. 1.9 Water solubility : insoluble

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable under recommended storage conditions.

Conditions to avoid : Temperature > 350 °C (> 662 °F)

Hazardous decomposition : Hazardous thermal decomposition products:

products Fluorinated compounds

SECTION 11. TOXICOLOGICAL INFORMATION

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Further information : No data is available on the product itself.

Perfluoropolyether

Dermal ALD : ca. > 17,000 mg/kg , rabbit

Oral LD50 : > 37,400 mg/kg, rat

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Inhalation 4 h ALC : ca. > 19.54 mg/l, rat

Skin irritation : slight irritation, rabbit

Eye irritation : slight irritation, rabbit

Skin sensitization : Patch test on human volunteers did not demonstrate sensitization

properties., human

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

Proprietary Additive

Oral LD50 : > 5,000 mg/kg, rat

Skin irritation : slight irritation, rabbit

Eye irritation : Eye irritation, rabbit

Skin sensitization : Causes sensitization., guinea pig

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity Perfluoropolyether

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l

The substance is a polymer and is not expected to produce toxic

effects.

48 h EC50 : Daphnia magna (Water flea) > 1,000 mg/l

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

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : In accordance with local and national regulations.



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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

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 Chemicals and Fluoroproducts, Wilmington, DE

19898, (800) 441-7515

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