

**Krytox<sup>®</sup> PFPE/PTFE Greases with Soluble Additive**

Version 2.4

Revision Date 08/06/2010

Ref. 15000000933

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 <sup>®</sup> PFPE/PTFE Greases with Soluble Additive
Product Grade/Type	:	XP: 2A0, 2A1, 2A2, 2A3, 2A4, 2A5, 2A6, 2A7 GPL: 226SR, 227SR NRT 8906A, AUT 2A45
MSDS Number	:	15000000933
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. The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco. Repeated episodes of polymer fume fever may result in persistent lung effects.

## 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		73 - 74 %
PTFE		23 - 25 %
Proprietary Additive		2 - 3 %

**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 : does not flash
- Thermal decomposition : 300 °C (572 °F)



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- 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. 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 : Shovel into suitable container for disposal.
- 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 300°C (572 F) local ventilation should be used to avoid exposure to fumes.
- Personal protective equipment

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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	: grease
Color	: white
Odor	: none
pH	: neutral
Melting point/range	: 320 °C (608 °F)
Specific Gravity	: 1.9 at 24 °C (75 °F)
Water solubility	: insoluble

**SECTION 10. STABILITY AND REACTIVITY**

Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Temperature 300 °C (572 °F)
Hazardous decomposition products	: Hazardous thermal decomposition products: Fluorinated compounds

**SECTION 11. TOXICOLOGICAL INFORMATION**

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



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Skin irritation	:	slight irritation, rabbit
Eye irritation	:	slight irritation, rabbit
Sensitisation	:	Causes sensitization., guinea pig
Further information	:	Information given is based on data on the components and the toxicology of similar products.

### 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

#### PTFE

: The substance is a polymer and is not expected to produce toxic effects.

#### Environmental Fate

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Biodegradability : Not readily biodegradable.

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

### 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.



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**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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