

Version 2.2

Revision Date 05/07/2010 Ref. 150000001170

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**

Krytox® PFPE/PTFE Greases (GPL 20(X) Series) Product name GPL: 200, 201, 202, 203, 204, 205, 206, 207, 207-500 Product Grade/Type

> XHT-S, XHT-SX FG: 20, 22, 24, 26

NRT: 8900, 8904, 8906, PLSS

Sealant: ST-45, ST-63 EG-2000, EG-3000

LVP, LS-23, AUT 2045, UM 04 PGL, TLC Grease

MSDS Number 150000001170

Product Use Lubricant

Manufacturer **DuPont** 

> 1007 Market Street Wilmington, DE 19898

Medical Emergency : Transport Emergency : 1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139)

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. 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: slight irritation, Redness.

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

Carcinogenicity



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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		55 - 85 %
PTFE		15 - 45 %

## **SECTION 4. FIRST AID MEASURES**

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.

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



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Thermal decomposition : 300 °C (572 °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.

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. 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.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls : In the event that the polymer is heated above 300 ℃ (572 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.

: Additional protection: No particular glove type is recommended, but nitrile Hand protection

may used.

: Safety glasses Eye protection

: No PPE is specified however, avoid contact with skin, eyes, and clothing. Skin and body protection

Preventive skin protection

**Exposure Guidelines Exposure Limit Values** 

None established.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : grease Color white Odor : none pΗ : neutral

Melting point/range : 320 °C (608 °F)

Specific Gravity : 1.89 - 1.93 at 24 °C (75 °F)

Water solubility : insoluble

#### **SECTION 10. STABILITY AND REACTIVITY**

Stability : Stable under recommended storage conditions.

Conditions to avoid : Decomposition temperature 300 °C (572 °F)

Hazardous decomposition

products

: Hazardous thermal decomposition products: Fluorinated compounds

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

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Oral ALD : > 11,000 mg/kg, rat



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Skin irritation : slight irritation, rabbit

Eye irritation : slight irritation, rabbit

Sensitisation : Animal test did not cause sensitization by skin contact., guinea pig

Perfluoropolyether

Further information : The substance is a polymer and is not expected to produce toxic

effects.

PTFE

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

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** 

Krytox® PFPE/PTFE Greases (GPL 20(X) Series)

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.

## Material Safety Data Sheet



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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**

Contact person

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-

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19898, (800) 441-7515

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