

**Krytox<sup>®</sup> NRT 8980**

Version 2.0

Revision Date 02/13/2012

Ref. 130000115692

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> NRT 8980  
MSDS Number : 130000115692

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

Skin : May cause skin irritation. Discomfort, itching, redness, or swelling., Drying of skin.

Eyes : Contact with eyes may cause irritation. Tearing, redness, or discomfort.

## 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**

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Component	CAS-No.	Concentration
Perfluoropolyether		75 - 85 %
Boron nitride	10043-11-5	15 - 25 %

**SECTION 4. FIRST AID MEASURES****SECTION 5. FIREFIGHTING MEASURES**

## Flammable Properties

Flash point : 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.  
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.

Spill Cleanup : Shovel into suitable container for disposal.

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



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**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Avoid breathing vapors from overheated 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 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.
  - Hand protection : Additional protection: No particular glove type is recommended, but nitrile may used.
  - 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 : solid
- Color : white

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Odor : none  
pH : neutral  
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 : 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 -  
Approximate Lethal  
Concentration : 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.  
Further information : The substance is a polymer and is not expected to produce toxic  
effects.

## Boron nitride

Oral LD50 : > 2,000 mg/kg , rabbit  
Repeated dose toxicity : Intratracheal instillation



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guinea pig  
60 d  
Reduced body weight gain, No toxicologically significant effects were found.

**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

**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**



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TSCA : Listed

**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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