

**Krytox<sup>®</sup> L - Series Oils**

Version 3.0

Revision Date 01/22/2013

Ref. 150000002926

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> L - Series Oils  
Product Grade/Type : L-15, L-32, L-65, L-100, L-150, L-220  
MSDS Number : 150000002926  
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 : 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
Krytox® Linear Fluid		90 - 100 %
Perfluoropolyether		0 - 10 %

**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. FIREFIGHTING 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)



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- 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 : 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.  
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

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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: 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

Contains no substances with occupational exposure limit values.

None established.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form : liquid  
Color : clear  
Odor : none  
Pour point : < -75 °C (-103 °F)  
Specific gravity : 1.85 - 1.9  
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

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**SECTION 11. TOXICOLOGICAL INFORMATION**Krytox<sup>®</sup> L - Series Oils

Dermal LD50 : &gt; 2,000 mg/kg , rat

Oral LD50 : &gt; 2,000 mg/kg , rat

Skin irritation : non-irritant

Eye irritation : non-irritant

Sensitisation : Not a skin sensitizer.

Repeated dose toxicity : Oral  
rat

No toxicologically significant effects were found.

Mutagenicity : Did not show mutagenic effects in animal experiments.

Further information : Information given is based on data obtained from similar product.

**SECTION 12. ECOLOGICAL INFORMATION**

## Aquatic Toxicity

Krytox<sup>®</sup> Linear Fluid

96 h NOEC : Danio rerio (zebra fish) &gt; 100 mg/l

72 h NOEC : Algae 102 mg/l

48 h NOEC : Daphnia magna (Water flea) &gt; 100 mg/l

## 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) &gt; 1,000 mg/l



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Environmental Fate  
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Biodegradability : Not readily biodegradable.

**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**

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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