

**Krytox[®] 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 [®] 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

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Dermal LD50 : > 2,000 mg/kg , rat

Oral LD50 : > 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® Linear Fluid

96 h NOEC : Danio rerio (zebra fish) > 100 mg/l

72 h NOEC : Algae 102 mg/l

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



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Environmental Fate
Krytox[®] Linear Fluid
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.

Krytox[®] and The DuPont Oval Logo[®]



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The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company.

Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE
19898, (800) 441-7515

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