Material Safety Data Sheet

Krytox[®] L - Series Oils

Version 3.0

Revision Date 01/22/2013

Ref. 15000002926

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 Product Grade/Type	:	Krytox [®] L - Series Oils L-15, L-32, L-65, L-100, L-150, L-220
MSDS Number	:	15000002926
Product Use	:	Lubricant
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information 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. 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 ℃ (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 RELEA	ASE MEASURES	
	G MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean- AL 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 STO	DRAGE	
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 ℃ (662 °F), local ventilation should be used to avoid exposure to fumes.	
Personal protective equipment		
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Revision Date 01/22/2013 Ref. 15000002926 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 ℃ (-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

Krytox[®] L - Series Oils Version 3.0 Revision Date 01/22/2013 Ref. 15000002926 SECTION 11. TOXICOLOGICAL INFORMATION Krytox[®] L - Series Oils Dermal LD50 : > 2,000 mg/kg , rat : > 2,000 mg/kg , rat Oral LD50 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 CON	SIDERATIONS	
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 II	NFORMATION	
TSCA Status	: On the inventory, or in compliance with the inventory	
SECTION 16. OTHER INFORM	ΔΤΙΩΝ	
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 O	val Logo [®]	
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	SDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE 9898, (800) 441-7515
the date of its publication. The information, disposal a information relates only to the special content of the sp	afety Data Sheet is correct to the best of our knowledge, information and belief at rmation given is designed only as a guidance for safe handling, use, processing, and release and is not to be considered a warranty or quality specification. The cific material designated and may not be valid for such material used in combination process, unless specified in the text.
Significant change from previous	ersion is denoted with a double bar.
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