

**DuPont™ Krytox® L-XP Greases**

Version 2.0

Revision Date 04/15/2015

Ref. 150000003034

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 | : | DuPont™ Krytox® L-XP Greases |
| Product Grade/Type | : | L-: 15 XP, 32 XP, 65 XP, 100 XP, 150 XP, 220 XP NRT 8990 |
| Product Use | : | Lubricant, For industrial use only. |
| Restrictions on use | : | Do not use product for anything outside of the above specified uses |
| Manufacturer/Supplier | : | DuPont 1007 Market Street Wilmington, DE 19898 United States of America |
| 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**Product hazard category**

Acute toxicity (Oral)

Category 4

Label content

Pictogram :



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Signal word : Warning

Hazardous warnings : Harmful if swallowed.

Hazardous prevention measures : Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
Rinse mouth.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The thermal decomposition vapours of fluorinated plastics 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.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 76 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No. | Concentration |
|---|---------|---------------|
| Poly(oxy<trifluoro(trifluoromethyl)ethylene>), omega-fluoro-alpha-<tetrafluoro-1-<<(hydroxyphenoxyphosphinyl)oxy>methyl>ethyl>- | | 1 - 5 % |

SECTION 4. FIRST AID MEASURES

General advice : When symptoms persist or in all cases of doubt seek medical advice.

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Oxygen or artificial respiration if needed.



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| Skin contact | : Wash with water and soap as a precaution. |
| Eye contact | : Rinse with plenty of water. If eye irritation persists, consult a specialist. |
| 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. |
| Most important symptoms/effects, acute and delayed | : No applicable data available. |
| Protection of first-aiders | : If potential for exposure exists refer to Section 8 for specific personal protective equipment. |
| Notes to physician | : Treat symptomatically. |

SECTION 5. FIREFIGHTING MEASURES

| | |
|---|--|
| Suitable extinguishing media | : The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : No applicable data available. |
| Specific hazards | : In fire conditions, toxic decomposition products may be formed. (see also section 10) |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment. |
| Further information | : 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.



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| Safeguards (Personnel) | : Avoid contact with the skin and the eyes. Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : Prevent material from entering sewers, waterways, or low areas. |
| Spill Cleanup | : Shovel into suitable container for disposal. |
| Accidental Release Measures | : No applicable data available. |

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. Keep away from food and drink. Keep away from tobacco products. Wash hands and face before breaks and immediately after handling the product. |
| Handling (Physical Aspects) | : No applicable data available. |
| Dust explosion class | : No applicable data available. |
| Storage | : No special storage conditions required. Keep container closed to prevent contamination. No decomposition if stored and applied as directed. |
| Storage period | : No applicable data available. |
| Storage temperature | : No applicable data available. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | |
|-------------------------------|--|
| Engineering controls | : In the event that the polymer is heated above 300°C (572 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 |

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

Exposure Guidelines
Exposure Limit Values

Poly(oxy<trifluoro(trifluoromethyl)ethylene>), omega-fluoro-alpha-<tetrafluoro-1-
<<(hydroxyphenoxyphosphinyl)oxy>methyl>ethyl>-
No applicable data available.

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

Physical state : solid
Form : waxy, grease
Color : white

Odor : none

Odor threshold : No applicable data available.

pH : neutral

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : does not flash

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

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| Vapour density | : No applicable data available. |
| Specific gravity (Relative density) | : No applicable data available. |
| Water solubility | : insoluble |
| Solubility(ies) | : No applicable data available. |
| Partition coefficient: n-octanol/water | : No applicable data available. |
| Auto-ignition temperature | : No applicable data available. |
| Decomposition temperature | : 300 °C |
| Viscosity, kinematic | : No applicable data available. |
| Viscosity | : No applicable data available. |

SECTION 10. STABILITY AND REACTIVITY

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|------------------------------------|--|
| Reactivity | : Stable under recommended storage conditions. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No applicable data available. |
| Conditions to avoid | : Decomposition temperature 320 °C (608 °F) |
| Incompatible materials | : No applicable data available. |
| Hazardous decomposition products | : Hazardous thermal decomposition products:: Fluorinated compounds |

SECTION 11. TOXICOLOGICAL INFORMATION

| | |
|------------------------------|-----------------------------|
| DuPont™ Krytox® L-XP Greases | |
| Oral LD50 | : > 2,000 mg/kg , Rat |
| Skin irritation | : slight irritation, Rabbit |

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Eye irritation : slight irritation, Rabbit

Sensitisation : Causes sensitisation., Guinea pig

Further information : Information given is based on data on the components and the toxicology of similar products.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

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 12. ECOLOGICAL INFORMATION**Environmental Fate**

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Biodegradability : Not readily biodegradable.

Additional ecological information : No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : In accordance with local and national regulations.

Contaminated packaging : 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.

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SECTION 15. REGULATORY INFORMATION

TSCA (US) 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 and DuPont CAUTION Regarding Medical Applications.

Krytox® and The DuPont Oval Logo®

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Revision Date : 04/15/2015

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

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