

Version 2.0

Revision Date 04/02/2015 Ref. 150000001170

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® PFPE/PTFE Greases (GPL 20(X) Series)
Product Grade/Type : GPL: 200, 201, 202, 203, 204, 205, 206, 207, 207-500

XHT-S, XHT-SX, XHT-SZ NRT: 8900, 8904, 8906, PLSS

Sealant: ST-45, ST-63 EG-2000, EG-3000

LVP, LS-23, AUT 2045, UM 04 PGL, TLC Grease

KDP 4935

Product Use : Lubricant, For industrial use only.

Restrictions on use : Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : Ratermann Manufacturing, Inc.

601 Pinnacle Place Livermore, CA 94550 United States of America

Product Information : 1-800-264-7793

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

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

Other hazards

The product as such is not hazardous., The thermal decomposition vapours of fluorinated polymers 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.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

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.

Skin contact : Wash with water and soap as a precaution.

Eye contact : Rinse with plenty of water. If eye irritation persists, consult a specialist.

: No applicable data available.

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

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.

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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.

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)

Dust explosion class

Storage

No applicable data available.No applicable data available.

: 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.

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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

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

Preventive skin protection

Exposure Guidelines
Exposure Limit Values

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : grease
Color : white

Odor : none

Odor threshold : No applicable data available.

pH : neutral

Melting point/freezing point : Melting point/range

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320 °C (608 °F)

Boiling point/boiling range : No applicable data available.

Flash point : Method: Pensky-Martens closed cup - PMCC

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.

Vapour density : No applicable data available.

Specific gravity (Relative

density)

: 1.89 - 1.93 at 24 °C (75 °F)

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

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.



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Possibility of hazardous

ossibility of Hazardous

reactions

Conditions to avoid : Decomposition temperature 320 °C (608 °F)

: No applicable data available.

Incompatible materials : No applicable data available.

Hazardous decomposition

products

: Hazardous thermal decomposition products:: Fluorinated compounds

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Krytox® PFPE/PTFE Greases (GPL 20(X) Series)

Oral ALD - Approximate : > 11,000 mg/kg , Rat

Lethal Dose

Skin irritation : slight irritation, Rabbit

Eye irritation : slight irritation, Rabbit

Sensitisation : Animal test did not cause sensitization by skin contact., Guinea pig

Further information : The product contains no substances classified as hazardous to health

in concentrations which should be taken into account.

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

DuPont™ Krytox® PFPE/PTFE Greases (GPL 20(X) Series)
Biodegradability : Not readily biodegradable.

Additional ecological information : The product contains no substances classified as hazardous to the

environment in concentrations which should be taken into account.



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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.

SECTION 15. REGULATORY INFORMATION

TSCA : 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.

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800-264-7793



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