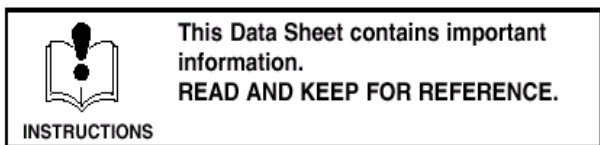


Safety Data Sheet



MSD195

Rev. B

Date: 2016-SEPT

1.0 PRODUCT AND COMPANY IDENTIFICATION

Supplier:

Graco Inc.
P.O. Box 1441
88 11th Ave. NE
Minneapolis, MN 55440-1441

Contact: www.graco.com

For Chemical Emergency

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: 1-703-741-5970

Product Name: Krytox

Part Number(s): 127183, 84/0200-K3/11

Use: Grease

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.

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.

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.

: 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 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 suitable protective equipment.	: Wear self-contained breathing apparatus (SCBA). Wear
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)	: 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 be 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

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
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, dynamic	: No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

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

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

Oral ALD – Approximate

Lethal Dose: > 11,000 mg/kg , Rat

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

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.

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 for medical-clinical purposes.

Prepared By	Graco, Inc.
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This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we have received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this Data Sheet may not be adequate for all individuals and/or situations. It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

*All written and visual data contained in this document reflects the latest product information available at the time of publication.
Graco reserves the right to make changes at any time without notice.*

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