Material Safety Data Shee	OU POND
Krytox [®] Sodium Nitrite	Inhibited PFPE/PTFE Greases (GPL 22(X) Series)
Version 2.4	
Revision Date 05/07/2010	Ref. 15000001171
This SDS adheres to the standard requirements in other countries.	s and regulatory requirements of the United States and may not meet the regulatory
SECTION 1. PRODUCT AND CO	MPANY IDENTIFICATION
Product name Product Grade/Type	 Krytox[®] Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series) GPL: 220, 221, 222, 223, 224, 225, 226, 227, 227-500 XHT - AC, ACX FG: 30, 32, 34, 35, 36 Corrugator: 226 FG, 227 FG Hi Temp T8-26, T8-27 HTC: 26, 27 AUT 2245 Krytox SLB 266
MSDS Number	: 15000001171
Product Use	: Lubricant
Manufacturer	: DuPont 1007 Market Street Wilmington, DE 19898
Product Information Medical Emergency Transport Emergency Other information	 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) professional use
SECTION 2. HAZARDS IDENTIFI Emergency Overview	CATION
The thermal decomposition	vapours of fluorinated polymers may cause polymer fume fever with flu-like cially when smoking contaminated tobacco. Repeated episodes of polymer fume nt lung effects.
Potential Health Effects Skin	: May cause: slight irritation, Redness.
Eyes	: May cause eye irritation. Discomfort, tearing, Blurred vision.
Carcinogenicity	
	1 / 7

Γ



Krytox[®] Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series)

Version 2.4

Revision Date 05/07/2010

Ref. 15000001171

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 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Perfluoropolyether		70 - 80 %
PTFE		20 - 25 %
Sodium nitrite	7632-00-0	1 - 4 %

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.
	2 / 7



Krytox[®] Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series)

Version 2.4

Revision Date 05/07/2010

Ref. 15000001171

SECTION 5. FIRE-FIGHTING MEASURES

Flammable Properties Flash point	: closed cup does not flash
Thermal decomposition	: 300 °C (572 °F)
Fire and Explosion Hazard	: In fire conditions, toxic decomposition products may be formed. (see also section 10)
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 cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Cleanup	:	Shovel into suitable container for disposal.
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. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. General industrial hygiene practice.
Storage	: No special storage conditions required. Keep container closed to prevent contamination.

Material Safety Data Sheet Krytox[®] Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series) Version 2.4 Revision Date 05/07/2010 Ref. 15000001171 No decomposition if stored and applied as directed. SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION : In the event that the polymer is heated above 300 °C (572 F) local ventilation Engineering controls 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 : No PPE is specified however, avoid contact with skin, eyes, and clothing. Skin and body protection Preventive skin protection Exposure Guidelines **Exposure Limit Values** None established. **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** Form : grease Color : white Odor : none pН : neutral Melting point/range : 320 ℃ (608 °F) Specific Gravity : 1.89 - 1.93 at 24 ℃ (75 °F) Water solubility : insoluble SECTION 10. STABILITY AND REACTIVITY Stability : Stable under recommended storage conditions. Conditions to avoid : Decomposition temperature 300 °C (572 °F) : Hazardous thermal decomposition products: Fluorinated compounds Hazardous decomposition products 4/7



Krytox[®] Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series)

Version 2.4

Revision Date 05/07/2010

Ref. 15000001171

Krytox	[®] Sodium Nitrite Inhibited PFPI Oral ALD	Ξ/Ρ [.] :	TFE Greases (GPL 22(X) Series) > 11,000 mg/kg , rat
	Oral LD50	:	> 5,000 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
Perfluc	propolyether Mutagenicity	:	Did not cause genetic damage in cultured bacterial cells.
DTEE	Further information	:	The substance is a polymer and is not expected to produce toxic effects.
PTFE	Further information	:	The substance is a polymer and is not expected to produce toxic effects.
Sodiun	n nitrite Mutagenicity	:	Experiments showed mutagenic effects in cultured bacterial cells. Tests on mammalian cell cultures showed mutagenic effects. Caused genetic damage in animals.
	Teratogenicity	:	Animal testing showed effects on embryo-foetal development at levels below those causing maternal toxicity. Has been reported to cause: Reduced embryo-foetal viability Reduced growth Active ingredient
			1

SECTION 12. ECOLOGICAL INFORMATION

4	quatic Toxicity 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.	
		5/7	



Krytox[®] Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series) Version 2.4 Revision Date 05/07/2010 Ref. 15000001171 48 h EC50 Daphnia magna (Water flea) > 1,000 mg/l : PTFE The substance is a polymer and is not expected to produce toxic effects. Sodium nitrite 96 h LC50 Oncorhynchus mykiss (rainbow trout) 0.54 mg/l **Environmental Fate** Krytox[®] Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series) Biodegradability : Not readily biodegradable. Additional ecological information : No data is available on the product itself. **SECTION 13. DISPOSAL CONSIDERATIONS** : In accordance with local and national regulations. Waste Disposal : Dispose of container properly. **Environmental Hazards** 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 SARA 313 Regulated : Sodium nitrite Chemical(s) : 2,000 lbs CERCLA Reportable Quantity Based on the percentage composition of this chemical in the product .: Sodium nitrite 6/7



Krytox[®] Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series)

Version 2.4

Revision Date 05/07/2010

Ref. 15000001171

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[®]

are trademarks of E. I. du Pont de Nemours and Company

Contact person

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Significant change from previous version is denoted with a double bar.