## SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010



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Krytox <sup>®</sup> Sodium Nitr	ite Inhibited PFPE/PTFE Greases (GPL 22(X) Series)
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his SDS adheres to the stance equirements in other countries	lards and regulatory requirements of Great Britain and may not meet the regulatory 5.
. IDENTIFICATION OF THE	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product identifier	
Product name	: Krytox <sup>®</sup> Sodium Nitrite Inhibited PFPE/PTFE Greases (GPL 22(X) Series)
Types	<ul> <li>GPL: 220, 221, 222, 223, 224, 225, 226, 227, 227-500</li> <li>XHT - AC, ACX, NDR 1466</li> <li>FG: 30, 32, 34, 35, 36</li> <li>Corrugator: 226 FG, 227 FG</li> <li>Hi Temp T8-26, T8-27</li> <li>HTC: 26, 27</li> <li>AUT 2245</li> <li>Krytox SLB 266</li> </ul>
Relevant identified uses	of the substance or mixture and uses advised against
Use of the Substance/Mixture	: Lubricant
Details of the supplier o	f the safety data sheet
Company	: Du Pont de Nemours (Nederland) B.V. Baanhoekweg 22 NL-3313 LA Dordrecht Netherlands
Telephone	: +31-78-630.1011
Telefax	: +31-78-630.1181
E-mail address	: sds-support@che.dupont.com
Emergency telephone n	umber
Emergency telephone number	: +44-(0)8456-006.640
HAZARDS IDENTIFICATIO	Ν
Classification of the sub	stance or mixture
Not a hazardous substand	ce or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
Label elements	
The product does not nee	d to be labelled in accordance with EC directives or respective national laws.



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### Other hazards

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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the : Mixture mixture

### Substances

not applicable

#### **Mixtures**

inixtar00						-
Chemical Name	CAS-No.	EC-No.	Registration number	Classification according Directive 67/548/EEC	Classification according Regulation 1272/2008 (CLP)	Concentration [%]
Perfluoroalkyl ether						>= 71 - <= 80
Polytetrafluor oethylene	9002-84-0					>= 18 - <= 27
Sodium nitrite	7632-00-0	231-555-9		O;R 8 T;R25 N;R50	Ox. Sol. 3; H272 Acute Tox. 3; H301 Aquatic Acute 1; H400	2

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

### Description of 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.
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.



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Most important symptoms a	nd effects, both acute and delayed		
Symptoms	: Polymer fume fever, Irritation, Discomfort, Blurred vision		
Indication of any immediate	medical attention and special treatment needed		
no data available			
5. FIRE-FIGHTING MEASURES			
Extinguishing media			
Suitable extinguishing media	: The product itself does not burn.		
	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Special hazards arising from	the substance or mixture		
Specific hazards during fire fighting	: In fire conditions, toxic decomposition products may be formed., (see also section 10)		
Advice for firefighters			
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus (SCBA)., Wear suitable protective equipment.		
Further information	: Standard procedure for chemical fires.		
6. ACCIDENTAL RELEASE MEAS	URES		
Personal precautions, protect	tive equipment and emergency procedures		
not applicable			
Environmental precautions			
Environmental precautions	Prevent material from entering sewers, waterways, or low areas.		
Methods and materials for containment and cleaning up			
Methods for cleaning up	: Shovel into suitable container for disposal.		
Reference to other sections			
7. HANDLING AND STORAGE			
Precautions for safe handling			
Advice on safe handling	: 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.		
Conditions for safe storage, including any incompatibilities			
Requirements for storage	No special storage conditions required. Keep container closed to prevent		
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areas and containers	contamination.
Other data	: No decomposition if stored and applied as directed.
Specific end uses	
no data available	
EXPOSURE CONTROLS/PE	RSONAL PROTECTION
Control parameters	
Exposure controls	
Engineering measures	: In the event that the polymer is heated above 300 °C (572 F) local ventilation should be used to avoid exposure to fumes.
Eye protection	: Safety glasses
Hand protection	: Impervious gloves
Skin and body protection	: No PPE is specified however, avoid contact with skin, eyes, and clothing. Preventive skin protection
Hygiene measures	: General industrial hygiene practice.
Respiratory protection	: No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.
PHYSICAL AND CHEMICAL	PROPERTIES
Information on basic phys	ical and chemical properties
Form	: grease
Colour	: white
Odour	: none
рН	: neutral
Melting point/range	: 320 °C
Flash point	: does not flash
Thermal decomposition	: 300 °C
Relative density	: 1,89 - 1,93 at 24 ℃
Water solubility	: insoluble
Other information	
no data available	



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STABILITY AND REACTIVI	Υ
Reactivity	no data available
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: Decomposition temperature : 300 °C
Incompatible materials	no data available
Hazardous decomposition products	: Fluorinated compounds
. TOXICOLOGICAL INFORM	-
Information on toxicologic	
Acute oral toxicity	: ALD / rat > : 11 000 mg/kg
	: LD50 / rat > : 5 000 mg/kg
Acute oral toxicity	
<ul> <li>Perfluoroalkylether</li> </ul>	: LD50 / rat : > 37 400 mg/kg
<ul> <li>Polytetrafluoroethylene</li> </ul>	: LD50 / rat : > 11 280 mg/kg
Acute inhalation toxicity	
<ul> <li>Perfluoroalkylether</li> </ul>	: ALC / rat : ca. > 19,54 mg/l
Acute dermal toxicity	
<ul> <li>Perfluoroalkylether</li> </ul>	: ALD / rabbit ca. : > 17 000 mg/kg
Skin irritation	: rabbit Classification: Not classified as irritant Result: slight irritation
Skin irritation	
<ul> <li>Perfluoroalkylether</li> </ul>	: rabbit Classification: Not classified as irritant Result: slight irritation
<ul> <li>Polytetrafluoroethylene</li> </ul>	: rabbit Classification: Not classified as irritant Result: No skin irritation
	: human Classification: Not classified as irritant Result: No skin irritation



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Eye irritation	:	rabbit Classification: Not classified as irritant Result: slight irritation
Eye irritation		
<ul> <li>Perfluoroalkylether</li> </ul>	:	rabbit Classification: Not classified as irritant Result: slight irritation
Sensitisation	:	guinea pig Result: Animal test did not cause sensitization by skin contact.
Sensitisation		
<ul> <li>Perfluoroalkylether</li> </ul>	:	human Classification: Not a skin sensitizer. Result: Patch test on human volunteers did not demonstrate sensitization properties. Method: Modified Draize Test
<ul> <li>Polytetrafluoroethylene</li> </ul>	:	human Classification: Not a skin sensitizer. Result: Patch test on human volunteers did not demonstrate sensitization properties.
Repeated dose toxicity		
Polytetrafluoroethylene	:	Oral - feed rat No toxicologically significant effects were found.,
Mutagenicity assessment		
<ul> <li>Perfluoroalkylether</li> </ul>	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects
Sodium nitrite	:	Experiments showed mutagenic effects in cultured bacterial cells.
Carcinogenicity assessment		
<ul> <li>Perfluoroalkylether</li> </ul>	:	no data available
<ul> <li>Perfluoroalkylether</li> </ul>	:	Not classifiable as a human carcinogen.
Sodium nitrite	:	Animal testing did not show any carcinogenic effects.
Toxicity to reproduction asse	ssn	nent
Perfluoroalkylether	:	no data available
Perfluoroalkylether	:	No toxicity to reproduction
Sodium nitrite	:	No toxicity to reproduction

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<ul> <li>Perfluoroalkylether</li> </ul>	:	no data available
<ul> <li>Sodium nitrite</li> </ul>	:	Active ingredient
Human experience	:	Excessive exposures may affect human health, as follows:
		Eye contact Irritation, Discomfort, Blurred vision
ECOLOGICAL INFORMATIC	N	
Toxicity		
Toxicity to fish		
<ul> <li>Perfluoroalkylether</li> </ul>	:	LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 1 000 mg/l The substance is a polymer and is not expected to produce toxic effects.
Toxicity to fish <ul> <li>Polytetrafluoroethylene</li> </ul>	:	The substance is a polymer and is not expected to produce toxic effects.
Toxicity to aquatic invertebra	tes	
<ul> <li>Perfluoroalkylether</li> </ul>	:	EC50 / 48 h / Daphnia magna (Water flea): > 1 000 mg/l
Persistence and degradabi	lity	
Biodegradability	:	Not readily biodegradable.
Bioaccumulative potential		
Bioaccumulation	:	no data available
Mobility in soil		
Mobility in soil	:	no data available
Results of PBT and vPvB a	ISSE	essment
PBT and vPvB assessment	:	no data available
Other adverse effects		
Additional ecological information	:	No data is available on the product itself.
DISPOSAL CONSIDERATIO	NS	
Waste treatment 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.



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### 14. TRANSPORT INFORMATION

Further information : Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

## Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

### **Chemical Safety Assessment**

no data available

## **16. OTHER INFORMATION**

### Text of R-phrases mentioned in Section 3

R 8	Contact with combustible material may cause fire.
R25	Toxic if swallowed.
R50	Very toxic to aquatic organisms.

### Full text of H-Statements referred to under section 3.

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.

Other information professional use

#### **Restrictions on 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.

Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.