

Krytox[™] NRT 8906

Versi 5.0	ion	Revision Date: 11/07/2018		0S Number: 65445-00006	Date of last issue: 09/17/2018 Date of first issue: 06/23/2017		
SEC	TION 1	IDENTIFICATION					
Product name		:	Krytox™ NRT 8906				
	Produc	t code	:	D13603359			
:	SDS-Id	entcode	:	130000033951			
	Manufa	acturer or supplier's o	deta	iils			
	Compa	ny name of supplier	:				
	Address		:	1007 Market Street Wilmington, DE 19899 United States of America (USA)			
	Telephone		:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)			
	Emergency telephone		:	Medical emergency: 1-866-595-1473 (outside the U.S. 1-302- 773-2000) ; Transport emergency: +1-800-424-9300 (outside the U.S. +1-703-527-3887)			
	Recom	mended use of the c	hen	nical and restriction	ons on use		
	Recommended use		:	Lubricant			
	Restric	tions on use	:	tions involving imp internal body fluid written agreemen	only. ell Chemours™ materials in medical applica- plantation in the human body or contact with s or tissues unless agreed to by Seller in a t covering such use. For further information, ur Chemours representative.		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flulike symptoms in humans, especially when smoking contaminated tobacco.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

No hazardous ingredients



Version 5.0	Revision Date: 11/07/2018		DS Number: 65445-00006	Date of last issue: 09/17/2018 Date of first issue: 06/23/2017			
SECTION	4. FIRST AID MEASU	RES					
lf inha	aled	:	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.				
In cas	se of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.				
In case of eye contact If swallowed		: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.					
		:	Get medical atter	NOT induce vomiting. tion if symptoms occur. oughly with water.			
Most important symptoms and effects, both acute and delayed		:	Inhalation may provoke the following symptoms: Irritation Lung edema Eye contact may provoke the following symptoms Blurred vision Discomfort Lachrymation Skin contact may provoke the following symptoms: Irritation Redness				
Prote	ction of first-aiders	:	No special preca	utions are necessary for first aid responders.			
Notes	s to physician	:	Treat symptomati	cally and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Not applicable Will not burn
Unsuitable extinguishing media	:	Not applicable Will not burn
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Hydrogen fluoride carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.



Krytox[™] NRT 8906

Vers 5.0	sion	Revision Date: 11/07/2018		S Number: 65445-00006	Date of last issue: 09/17/2018 Date of first issue: 06/23/2017		
Special protective equipment for fire-fighters			:	Wear self-containe necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.		
SEC	CTION 6	ACCIDENTAL RELE	ASE	E MEASURES			
Personal precautions, protec- tive equipment and emer- gency procedures			:	Follow safe handling advice and personal protective equipment recommendations.			
	Environmental precautions :			Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.			
Methods and materials for containment and cleaning up		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate og materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items eanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.			

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	No special restrictions on storage with other products.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.



Version	Revision Date:	SDS Number:	Date of last issue: 09/17/2018
5.0	11/07/2018	1765445-00006	Date of first issue: 06/23/2017

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrofluoric acid	7664-39-3	TŴA	3 ppm 2.5 mg/m ³	NIOSH REL
		С	6 ppm 5 mg/m³	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		ST	5 ppm 15 mg/m ³	NIOSH REL
		TWA	2 ppm 5 mg/m ³	NIOSH REL
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m ³	OSHA Z-1
		TWA	5,000 ppm 9,000 mg/m ³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m ³	NIOSH REL
		С	200 ppm 229 mg/m ³	NIOSH REL
		TWA	50 ppm 55 mg/m ³	OSHA Z-1

Engineering measures

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

:

:

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are



Version 5.0	Revision Date: 11/07/2018		DS Number: 765445-00006	Date of last issue: 09/17/2018 Date of first issue: 06/23/2017		
			unknown, appropriate respiratory protection should Follow OSHA respirator regulations (29 CFR 1910. use NIOSH/MSHA approved respirators. Protection by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive press supplied respirator if there is any potential for uncor release, exposure levels are unknown, or any other circumstance where air purifying respirators may no adequate protection.			
Hand	d protection					
R	lemarks	:	Wash hands befo	re breaks and at the end of workday.		
Eye protection		:	Wear the followin Safety glasses	g personal protective equipment:		
Skin	and body protection	:	Skin should be wa	ashed after contact.		
Hygi	ene measures	:	located close to the When using do not	lushing systems and safety showers are ne working place. ot eat, drink or smoke. ed clothing before re-use.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grease
Color	:	white
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	7
Melting point/freezing point	:	608 °F / 320 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	Method: Pensky-Martens closed cup Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



Krytox[™] NRT 8906

Versio 5.0	n Revision Date: 11/07/2018		S Number: 65445-00006	Date of last issue: 09/17/2018 Date of first issue: 06/23/2017
Va	apor pressure	:	Not applicable	
Re	elative vapor density	:	Not applicable	
Re	elative density	:	1.89 - 1.93	
So	Solubility(ies) Water solubility		insoluble	
	Partition coefficient: n- octanol/water		Not applicable	
Αι	Autoignition temperature		No data available	9
De	Decomposition temperature		554 °F / 290 °C	
Vi	scosity Viscosity, kinematic	:	Not applicable	
E	xplosive properties	:	Not explosive	
O	xidizing properties	:	The substance o	r mixture is not classified as oxidizing.
Pa	Particle size		No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.			
Chemical stability	:	Stable under normal conditions.			
Possibility of hazardous reac- tions	:	Hazardous decomposition products will be formed at elevated temperatures.			
Conditions to avoid	:	None known.			
Incompatible materials	:	None.			
Hazardous decomposition products Thermal decomposition : Hydrofluoric acid					

Thermal decomposition : Hydrofluoric acid Carbonyl difluoride Carbon dioxide Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact



Krytox[™] NRT 8906

Versio 5.0	n Revisi 11/07/	on Date: ⁄2018	SDS Number: 1765445-00006	Date of last issue: 09/17/2018 Date of first issue: 06/23/2017						
	cute toxicity ot classified l		ble information.							
SI	Skin corrosion/irritation Not classified based on available information.									
N	ot classified I		ble information.							
R	espiratory o	r skin sensitiz	ation							
	kin sensitiza ot classified l		ble information.							
	espiratory s ot classified I		ble information.							
	Germ cell mutagenicity Not classified based on available information.									
	arcinogenic	-								
	Not classified based on available information.IARCNo ingredient of this product present at levels greater than or equal to 0.1% identified as probable, possible or confirmed human carcinogen by IARC.									
0	OSHA No component of this product present at levels greater than or equal to 0 on OSHA's list of regulated carcinogens.									
N	NTP No ingredient of this product present at levels greater than or equal to 0.1% identified as a known or anticipated carcinogen by NTP.									
	Reproductive toxicity Not classified based on available information.									
	STOT-single exposure Not classified based on available information.									
	TOT-repeate ot classified I	-	ble information.							
	Aspiration toxicity Not classified based on available information.									

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available



Krytox[™] NRT 8906

Version 5.0	Revision Date: 11/07/2018		DS Number: 765445-00006	Date of last issue: 09/17/2018 Date of first issue: 06/23/2017
Other adverse effects No data available				
SECTION 13. DISPOSAL CONSIDERATIONS				
Dispo	osal methods			
Waste	e from residues	:	Dispose of in accordance with local regulations.	
Conta	aminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.	

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards
--

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know



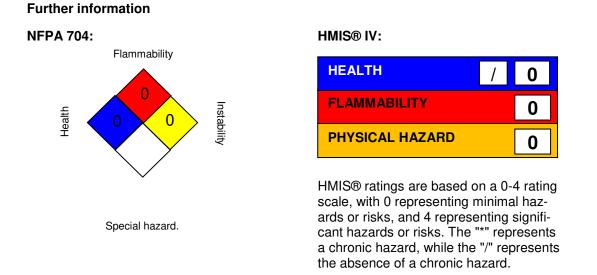
Version	Revision Date: 11/07/2018	SDS Number:	Date of last issue: 09/17/2018
5.0		1765445-00006	Date of first issue: 06/23/2017
			-

PFPE fluid Fluoropolymer Trade secret Trade secret

California Prop. 65

WARNING: This product can expose you to chemicals including pentadecafluorooctanoic acid, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION



Krytox[™] and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.

Chemours [™] and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-2	:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-2 / TWA	:	8-hour time weighted average



Krytox[™] NRT 8906

Version	Revision Date:	SDS Number:	Date of last issue: 09/17/2018
5.0	11/07/2018	1765445-00006	Date of first issue: 06/23/2017

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety	eChem Portal search results and European Chemicals Agen-
Data Sheet	cy, http://echa.europa.eu/

Revision Date

: 11/07/2018

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.



Version	Revision Date:	SDS Number:	Date of last issue: 09/17/2018
5.0	11/07/2018	1765445-00006	Date of first issue: 06/23/2017

US / Z8