

Krytox[™] NRT PLSS

Vers 6.0	ion	Revision Date: 11/08/2022		0S Number: 65447-00014	Date of last issue: 03/30/2022 Date of first issue: 06/23/2017	
SEC	TION 1	. IDENTIFICATION				
	Produc	t name	:	Krytox™ NRT PL	SS	
	Produc	t code	:	D13604030		
	SDS-Id	entcode	:	130000033953		
	Manufa	acturer or supplier's o	deta	ils		
	Compa	ny name of supplier	:	The Chemours Co	ompany FC, LLC	
	Address		:	1007 Market Street Wilmington, DE 19801 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	
	Recom	mended use	:	Lubricant		
	Restric	tions on use	:	Do not use or rest tions involving imp internal body fluid written agreemen	only. ell Chemours™ materials in medical applica- blantation 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 the OSHA Hazard Communication Standard (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 6.0	Revision Date: 11/08/2022		DS Number: /65447-00014	Date of last issue: 03/30/2022 Date of first issue: 06/23/2017	
SECTION	N 4. FIRST AID MEASU	RES			
lf inf	naled	:	If inhaled, remove Get medical atter	e to fresh air. ntion if symptoms occur.	
In ca	ase of skin contact	:		and soap as a precaution. ntion if symptoms occur.	
In ca	In case of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
lf sw	allowed	:	Get medical atter	NOT induce vomiting. ntion if symptoms occur. oughly with water.	
	t important symptoms effects, both acute and yed	:	Irritation Lung edema Eye contact may Blurred vision Discomfort Lachrymation	ovoke the following symptoms: provoke the following symptoms provoke the following symptoms:	
Prot	ection of first-aiders	:	No special preca	utions are necessary for first aid responders.	
Note	es to physician	:	Treat symptomat	ically 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	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod-	:	Hydrogen fluoride carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates Carbon oxides
Specific extinguishing meth-	:	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.



Krytox[™] NRT PLSS

Version 6.0	n	Revision Date: 11/08/2022		9S Number: 65447-00014	Date of last issue: 03/30/2022 Date of first issue: 06/23/2017			
		protective equipment ighters	:	Evacuate area. Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.				
SECTI	ON 6.	ACCIDENTAL RELE	ASE	EMEASURES				
tiv	ve equ	al precautions, protec- ipment and emer- rocedures	:		ing advice (see section 7) and personal pro- recommendations (see section 8).			
Eı	nviron	mental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages			
	Methods and materials for containment and cleaning up		:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate contain- ment to keep material from spreading. If diked material can pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and disp sal of this material, as well as those materials and items em ployed in the cleanup of releases. You will need to determin which regulations are applicable. Sections 13 and 15 of this SDS provide information regardin certain local or national 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	:	Do not breathe decomposition products.				
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment 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.				



Krytox[™] NRT PLSS

Version	Revision Date:	SDS Number:	Date of last issue: 03/30/2022
6.0	11/08/2022	1765447-00014	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	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Hydrogen fluoride	7664-39-3	TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
		С	6 ppm 5 mg/m ³	NIOSH REL
		TWA	3 ppm 2.5 mg/m ³	NIOSH REL
		TWA	3 ppm	OSHA Z-2
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		TWA	2 ppm 5 mg/m ³	NIOSH REL
		ST	5 ppm 15 mg/m³	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	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m ³	OSHA Z-1
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/m³	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



Version 6.0	Revision Date: 11/08/2022		DS Number: /65447-00014	Date of last issue: 03/30/2022 Date of first issue: 06/23/2017
			concentrations ar unknown, approp Follow OSHA res use NIOSH/MSH, by air purifying re dous chemical is respirator if there exposure levels a	aposures below recommended limits. Where e above recommended limits or are riate respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any hazar- limited. Use a positive pressure air supplied is any potential for uncontrolled release, re unknown, or any other circumstance g respirators may not provide adequate
Hand	protection			
R	emarks	:	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.
Hygie	ene measures	:	eye flushing syste king place. When using do no	emical is likely during typical use, provide ems and safety showers close to the wor- 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	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn



Krytox™ NRT PLSS

Vers 6.0	sion	Revision Date: 11/08/2022	-	S Number: 5447-00014	Date of last issue: 03/30/2022 Date of first issue: 06/23/2017
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	1.89 - 1.93 (75 °F	F / 24 °C)
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	ition temperature	:	No data available)
	Decom	position temperature	:	500 - 554 °F / 26	0 - 290 °C
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle	size	:	No data available)

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.
llenerdene decemposition n		

Hazardous decomposition products

Thermal decomposition	:	Hydrogen fluoride
		Carbonyl difluoride
		Carbon dioxide
		Carbon monoxide



Krytox[™] NRT PLSS

Version	Revision Date:	SDS Number:	Date of last issue: 03/30/2022
6.0	11/08/2022	1765447-00014	Date of first issue: 06/23/2017

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is 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.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available



Krytox[™] NRT PLSS

Vers 6.0	sion	Revision Date: 11/08/2022		DS Number: 765447-00014	Date of last issue: 03/30/2022 Date of first issue: 06/23/2017	
	Persistence and degradability					
	Product: Physico-chemical removabil- : Remarks: No data available ity					
	Bioaccumulative potential No data available					
	Mobility in soil No data available					
	Other adverse effects No data available					
SECTION 13. DISPOSAL CONSIDERATIONS						
	•	sal methods from residues	:	Dispose of in acc	ordance with local regulations.	
	Contar	ninated 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

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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.



This mater SARA 311 SARA 313 US State F Pennsylva California WARNING which is/ar which is/ar For more in with PFOA	rial does not conta /312 Hazards Regulations ania Right To Kno PFPE fluid Fluoropolymer Prop. 65	nin any : : ow	y components No SARA Ha: This material known CAS n reporting leve	Threshold Planning Quantity with a section 302 EHS TPQ. zards does not contain any chemical componer umbers that exceed the threshold (De Mi Is established by SARA Title III, Section 3 Trade secret Trade secret micals including Pentadecafluorooctanoid	nimis) 313. acid,
SARA 313 US State F Pennsylva California WARNING which is/ar which is/ar For more in with PFOA	Regulations ania Right To Kno PFPE fluid Fluoropolymer Prop. 65 5: This product car re known to the Sta	: ow n expo	This material known CAS n reporting leve	does not contain any chemical componer umbers that exceed the threshold (De Mi Is established by SARA Title III, Section 3 Trade secret Trade secret	nimis) 313. acid,
US State F Pennsylva California WARNING which is/ar which is/ar For more in with PFOA	Regulations ania Right To Kno PFPE fluid Fluoropolymer Prop. 65 5: This product car re known to the Sta	n expo	known CAS n reporting leve	umbers that exceed the threshold (De Mi ls established by SARA Title III, Section 3 Trade secret Trade secret	nimis) 313. acid,
Pennsylva California WARNING which is/ar which is/ar For more in with PFOA	ania Right To Kno PFPE fluid Fluoropolymer Prop. 65 S: This product car re known to the Sta	n expo		Trade secret	
California WARNING which is/ar which is/ar For more in with PFOA	PFPE fluid Fluoropolymer Prop. 65 5: This product car re known to the Sta	n expo		Trade secret	
California WARNING which is/ar which is/ar For more in with PFOA	Prop. 65 B: This product car re known to the Sta			micals including Pentadecafluorooctanoic	
	nformation go to w nor is PFOA inter esent as an impuri	vww.F ntiona ity at l	265Warnings.c ally present in t background (e	a.gov. Note to User: This product is not n he product; however, it is possible that Pl nvironmental) levels.	nade
NFPA 704				HMIS® IV:	
Health	Flammability		Instability	HEALTH / 0 FLAMMABILITY 0 PHYSICAL HAZARD 0 HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing signifi-	

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

a chronic hazard, while the "/" represents

the absence of a chronic hazard.

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

Special hazard

For further information contact the local Chemours office or nominated distributors.



Version 6.0	Revision Date: 11/08/2022		S Number: 65447-00014	Date of last issue: 03/30/2022 Date of first issue: 06/23/2017			
Full t	ext of other abbrevia	tions					
ACGIH		:	: USA. ACGIH Threshold Limit Values (TLV)				
NIOS	NIOSH REL		USA. NIOSH Recommended Exposure Limits				
OSHA Z-1		:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants				
OSH	OSHA Z-2		USA. Occupational Exposure Limits (OSHA) - Table Z-2				
ACGI	ACGIH / TWA		8-hour, time-weighted average				
ACGI	ACGIH / STEL		Short-term exposure limit				
ACGI	ACGIH / C		Ceiling limit				
NIOS	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				
NIOS	NIOSH REL / C :		Ceiling value not be exceeded at any time.				
OSH/	OSHA Z-1 / TWA		8-hour time weighted average				
OSHA Z-2 / TWA			8-hour time weighted average				

AIIC - Australian Inventory of Industrial Chemicals; 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; TECI - Thailand Existing Chemicals 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 : compile the Material Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/



Krytox[™] NRT PLSS

Version	Revision Date: 11/08/2022	SDS Number:	Date of last issue: 03/30/2022
6.0		1765447-00014	Date of first issue: 06/23/2017

Revision Date : 11/08/2022

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.

US / Z8