

Version 7.3	Revision Date: 02/19/2020	SDS Number: 1333215-00037	Date of last issue: 08/26/2019 Date of first issue: 02/27/2017				
SECTIO	N 1. IDENTIFICATION						
Pro	duct name	: Krytox™ NRT	8908 Paste				
SDS	S-Identcode	: 13000003393	0				
Mar	ufacturer or supplier's	details					
Con	npany name of supplier	: The Chemou	s Company FC, LLC				
Address			1007 Market Street Wilmington, DE 19801 United States of America (USA)				
Tele	ephone	: 1-844-773-CH	IEM (outside the U.S. 1-302-773-1000)				
Emergency telephone			gency: 1-866-595-1473 (outside the U.S. 1-302- Transport emergency: +1-800-424-9300 (outside 03-527-3887)				
Rec	ommended use of the	chemical and restr	ictions on use				
Rec	ommended use	: Lubricant					
Res	trictions on use	tions involving internal body written agreer	use only. resell Chemours™ materials in medical applica- g implantation in the human body or contact with fluids or tissues unless agreed to by Seller in a ment covering such use. For further information, ct your 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

Chemical name	CAS-No.	Concentration (% w/w)				
Additive	Trade secret	>= 30 - < 50				
A stud concentration is withheld on a trade accret						

Actual concentration is withheld as a trade secret



Version 7.3	Revision Date: 02/19/2020		OS Number: 33215-00037	Date of last issue: 08/26/2019 Date of first issue: 02/27/2017
SECTION	4. FIRST AID MEASU	RES		
lf inha	aled	:	If inhaled, remo Get medical atte	ve to fresh air. ention if symptoms occur.
In cas	se of skin contact	:		er and soap as a precaution. ention if symptoms occur.
In cas	se of eye contact	:		water as a precaution. ention if irritation develops and persists.
lf swa	llowed	:	Get medical atte	O NOT induce vomiting. ention if symptoms occur. oroughly with water.
	important symptoms ffects, both acute and ed	:	Irritation Polymer fume f Skin contact ma Discomfort Itching Redness Swelling of tissu	ay provoke the following symptoms:
Prote	ction of first-aiders	:	No special prec	autions are necessary for first aid responder
Notes	to physician	:	Treat symptoma	atically and supportively.

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.

SAFETY DATA SHEET



Krytox[™] NRT 8908 Paste

Vers 7.3	sion	Revision Date: 02/19/2020	-	S Number: 33215-00037	Date of last issue: 08/26/2019 Date of first issue: 02/27/2017	
	Special for fire-	protective equipment fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.		
SEC	CTION 6	ACCIDENTAL RELE	ASE	EMEASURES		
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handli equipment recomi	ng advice and personal protective nendations.	
Environmental precautions			:	Prevent further lea Retain and dispos	environment must be avoided. akage or spillage if safe to do so. e of contaminated wash water. hould be advised if significant spillages ed.	
		ls and materials for ment and cleaning up	:	For large spills, pr ment to keep mate pumped, store rec Clean up remainin bent. Local or national r sal of this materia ployed in the clean which regulations Sections 13 and 1	absorbent material. ovide diking or other appropriate contain- erial from spreading. If diked material can be overed material in appropriate container. In a materials from spill with suitable absor- egulations may apply to releases and dispo- l, as well as those materials and items em- hup of releases. You will need to determine 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 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.

SAFETY DATA SHEET



Krytox[™] NRT 8908 Paste

Version	Revision Date:	SDS Number:	Date of last issue: 08/26/2019
7.3	02/19/2020	1333215-00037	Date of first issue: 02/27/2017

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Additive	Trade secret	TWA (Dust)	20 Million par- ticles per cubic foot	OSHA Z-3
		TWA (Res- pirable)	2 mg/m ³	NIOSH REL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m ³	ACGIH

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/m³	OSHA Z-1
		TWA	5,000 ppm 9,000 mg/m³	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	OSHA Z-1



sion	Revision Date: 02/19/2020		DS Number:Date of last issue: 08/26/201933215-00037Date of first issue: 02/27/2017
			55 mg/m³
Engir	neering measures	:	Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
Perso	onal protective equip	ment	
Respi	iratory protection	:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazar- dous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
	protection aterial	:	Nitrile rubber
Re	emarks	:	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to che- micals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the pro- duct. Change gloves often!
Eye p	protection	:	Wear the following personal protective equipment: Safety glasses
Skin a	and body protection	:	Skin should be washed after contact.
Hygie	ene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the wor- king place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
	9. PHYSICAL AND CI	HEMI	CAL PROPERTIES
Anno	arance		Grease

Color	:	white
-------	---	-------

Odor : odorless

SAFETY DATA SHEET



Krytox[™] NRT 8908 Paste

Vers 7.3	ion	Revision Date: 02/19/2020		S Number: 33215-00037	Date of last issue: 08/26/2019 Date of first issue: 02/27/2017
	Odor Tl	hreshold	:	No data available	
	pН		:	7	
	Melting	point/freezing point	:	No data available	3
	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	Will not burn	
		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	:	1.9	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available)
	Decom	position temperature	:	662 °F / 350 °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.



Vers 7.3	sion	Revision Date: 02/19/2020		S Number: 33215-00037	Date of last issue: 08/26/2019 Date of first issue: 02/27/2017
	Chemical stability		:	Stable under nor	mal conditions.
	Possibility of hazardous reac- tions Conditions to avoid Incompatible materials		:	Hazardous decor temperatures.	mposition products will be formed at elevated
			:	None known.	
			:	None.	
		lous decomposition p al decomposition	orod :	ucts Hydrofluoric acid Carbonyl difluoric Carbon dioxide Carbon monoxide	de
SEC	CTION 1	1. TOXICOLOGICAL I	NFC	RMATION	
	Information on likely routes Skin contact Ingestion Eye contact Acute toxicity Not classified based on availal <u>Components:</u>				
	Additiv Acute o	ve: oral toxicity	:	LD50 (Rat): > 5,0 Remarks: Based (00 mg/kg on data from similar materials
	Skin corrosion/irritation Not classified based on availa		ble i	nformation.	
	Compo	onents:			
	Additiv Species Result		:	Rabbit No skin irritation	
	Serious eye damage/eye irrit Not classified based on availa				
	<u>Compo</u>	onents:			
	Additiv Species Result		:	Rabbit No eye irritation	



ersion 3	Revision Date: 02/19/2020	SDS Number: 1333215-00037	Date of last issue: 08/26/2019 Date of first issue: 02/27/2017			
Resp	iratory or skin sens	itization				
Skin sensitization Not classified based on available information.						
-	iratory sensitization assified based on av					
<u>Com</u>	oonents:					
Addit	ive:					
Route Speci Resul		: Skin contact : Humans : negative				
	a cell mutagenicity lassified based on av	ailable information.				
<u>Com</u>	oonents:					
Addit	ive:					
Geno	toxicity in vitro		A damage and repair, unscheduled DNA syn- nalian cells (in vitro) 'e			
Geno	toxicity in vivo	: Test Type: Chr Species: Rat Application Ro Result: negativ				
	nogenicity assified based on av	ailable information.				
Com	<u>oonents:</u>					
	es cation Route sure time	: Mouse : inhalation (dus : 2 Years : negative	t/mist/fume)			
IARC	0		ent at levels greater than or equal to 0.1% is r confirmed human carcinogen by IARC.			
OSH		nent of this product pre s list of regulated carcir	sent at levels greater than or equal to 0.1% is nogens.			
NTP	No ingredi identified a	ent of this product pres	ent at levels greater than or equal to 0.1% is			

Reproductive toxicity

Not classified based on available information.



Vers 7.3	sion	Revision Date: 02/19/2020	SDS Number: 1333215-00037	Date of last issue: 08/26/2019 Date of first issue: 02/27/2017
	<u>Comp</u>	onents:		
	Additi	ve:		
	Effects	s on fetal development	Species: Rat	nbryo-fetal development oute: Ingestion ve
	STOT	single exposure		
	Not cla	assified based on availa	ble information.	
		repeated exposure		
	Not cla	assified based on availa	ble information.	
	-	ation toxicity		
	Not cla	assified based on availa	ble information.	
SEC	CTION 1	12. ECOLOGICAL INFO	ORMATION	
	Ecoto	xicity		
	<u>Comp</u>	onents:		
	Additi	ve:		
	Toxicit	y to fish	: LC50 (Brachy Exposure time	danio rerio (zebrafish)): > 100,000 mg/l e: 24 h
	Persis	stence and degradabili	ity	
		a available	-	
	Bioac	cumulative potential		
	No dat	a available		
	Mobili	ty in soil		
	No dat	a available		
	Other	adverse effects		
	No dat	a available		
SEC		13. DISPOSAL CONSIE	DERATIONS	

Disposal methods Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated 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



Version 7.3	Revision Date: 02/19/2020	SDS Number: 1333215-00037	Date of last issue: 08/26/2019 Date of first issue: 02/27/2017			
Not re	egulated as a dangerou	s good				
	IATA-DGR Not regulated as a dangerous good					
	IMDG-Code Not regulated as a dangerous good					
	sport in bulk accordin oplicable for product as	• 	RPOL 73/78 and the IBC Code			
Dome	estic regulation					
49 CF Not re	R egulated as a dangerou	s good				
SECTION	15. REGULATORY IN	FORMATION				

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

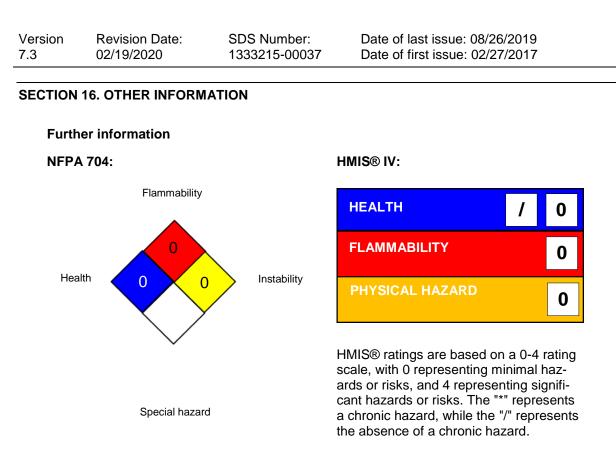
PFPE fluid Additive Trade secret Trade secret

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. Note to User: This product is not made with PFOA nor is PFOA intentionally present in the product; however, it is possible that PFOA may be present as an impurity at background (environmental) levels.

California List of Hazardous Substances	
Additive	Trade secret
California Permissible Exposure Limits for Chemical Contaminants	
Additive	Trade secret





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.

Full text of other abbreviations

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
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
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
OSHA Z-3 / TWA	:	8-hour time weighted average

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 Sub-



Version	Revision Date:	SDS Number:	Date of last issue: 08/26/2019
7.3	02/19/2020	1333215-00037	Date of first issue: 02/27/2017

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

Revision Date : 02/19/2020

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