

Krytox[™] XHT-BDX

Versic 6.2	on	Revision Date: 02/21/2020		DS Number: 64041-00009	Date of last issue: 09/27/2019 Date of first issue: 06/22/2017		
SECT	TON 1.	DENTIFICATION					
P	Product	t name	:	Krytox™ XHT-BD	X		
S	SDS-Id	entcode	:	13000024309			
Ν	Manufa	acturer or supplier's	deta	ails			
C	Compa	ny name of supplier	:	The Chemours C	ompany FC, LLC		
Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)				
Т	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)				
R	Recom	mended use of the c	hen	nical and restriction	ons on use		
R	Recom	mended use	:	Lubricant			
R	Restrict	ions on use	:	tions involving im internal body fluid written agreemen	only. ell Chemours™ materials in medical applica- plantation in the human body or contact with ls 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

SECTION 4. FIRST AID MEASURES

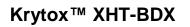


Krytox™ XHT-BDX

Version 6.2	Revision Date: 02/21/2020	SDS Nun 1764041		Date of last issue: 09/27/2019 Date of first issue: 06/22/2017		
lf ir	haled			e to fresh air. ntion if symptoms occur.		
In (case of skin contact			and soap as a precaution. ntion if symptoms occur.		
In o	case of eye contact			vater as a precaution. htion if irritation develops and persists.		
lf s	wallowed	Get n	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
and	Most important symptoms and effects, both acute and delayed		ion ness of brea contact may ion omfort g ess ing of tissue	provoke the following symptoms:		
Pro	otection of first-aiders	: No sp	oecial preca	utions are necessary for first aid responders.		
No	tes 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 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 Metal oxides Nitrogen oxides (NOx)
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.





Vers 6.2	sion	Revision Date: 02/21/2020		9S Number: 64041-00009	Date of last issue: 09/27/2019 Date of first issue: 06/22/2017
				Remove undamaç so. Evacuate area.	ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:	Wear self-contain necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.
SEC	TION 6	. ACCIDENTAL RELE	ASE	E MEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handli equipment recomi	ing advice and personal protective mendations.
	Enviror	nmental precautions	:	Prevent further lea Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. e of contaminated wash water. should 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 covered material in appropriate container. In materials from spill with suitable absor- egulations may apply to releases and dispo- l, as well as those materials and items em- nup 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.



Krytox[™] XHT-BDX

Version	Revision Date:	SDS Number:	Date of last issue: 09/27/2019
6.2	02/21/2020	1764041-00009	Date of first issue: 06/22/2017

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	TWA	3 ppm 2.5 mg/m ³	NIOSH REL
		C	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 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.

Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Rele-

Krytox™ XHT-BDX



Version 6.2	Revision Date: 02/21/2020		DS Number: 64041-00009	Date of last issue: 09/27/2019 Date of first issue: 06/22/2017
			Regulated of 15 r fraction; and ACC soluble) Not Othe	e: OSHA PEL for Particulates Not Otherwise ng/m3 - total dust, 5 mg/m3 - respirable GIH TWA for Particles (insoluble or poorly erwise Specified of 3 mg/m3 - respirable n3 - inhalable particles.
Perso	onal protective equip	ment		
Respi	iratory protection	:	maintain vapor ex concentrations ar unknown, approp Follow OSHA res use NIOSH/MSH by air purifying re dous chemical is respirator if there exposure levels a	I exhaust ventilation is recommended to commended 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, are unknown, or any other circumstance g respirators may not provide adequate
Hand	protection			
Re	emarks	:	Wash hands befo	pre breaks and at the end of workday.
Eye p	protection	:	Wear the followin Safety glasses	g personal protective equipment:
Skin a	and body protection	:	Skin should be w	ashed after contact.
Hygie	ene measures	:	eye flushing syste king place. When using do n	emical is likely during typical use, provide ems and safety showers close to the wor- ot eat, drink or smoke. red 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	:	No data available



Krytox™ XHT-BDX

Vers 6.2	sion	Revision Date: 02/21/2020		S Number: 4041-00009	Date of last issue: 09/27/2019 Date of first issue: 06/22/2017
	Initial bo 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 (75 °F / 24 °C	;)
	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 or	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.



Krytox[™] XHT-BDX

		Revision Date: 02/21/2020	SDS Number: 1764041-00009	Date of last issue: 09/27/2019 Date of first issue: 06/22/2017
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Hazardous decomposition products

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

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.

Product:

Reproductive toxicity - As-	:	No toxicity to reproduction
sessment		



Krytox[™] XHT-BDX

Version 6.2	Revision Date: 02/21/2020	SDS Number: 1764041-00009	Date of last issue: 09/27/2019 Date of first issue: 06/22/2017				
STO	STOT-single exposure						
Not classified based on available information.							
STOT-repeated exposure							
Not c	Not classified based on available information.						
Aspi	ration toxicity						
Not c	lassified based on ava	ailable information.					
Ecot	12. ECOLOGICAL IN oxicity ata available	IFORMATION					
Pers	stence and degrada	bility					
		bility					
No da	stence and degrada	-					
No da Bioa	istence and degrada ata available	-					
No da Bioa No da	istence and degrada ata available ccumulative potentia	-					
No da Bioa No da Mob i	istence and degrada ata available ccumulative potentia ata available	-					
No da Bioa No da Mobi No da	istence and degrada ata available ccumulative potentia ata available lity in soil	-					

SECTION 13. DISPOSAL CONSIDERATIONS

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

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



Krytox[™] XHT-BDX

Version	Revision Date:	SDS Number:	Date of last issue: 09/27/2019
6.2	02/21/2020	1764041-00009	Date of first issue: 06/22/2017

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	o SARA Hazards
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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

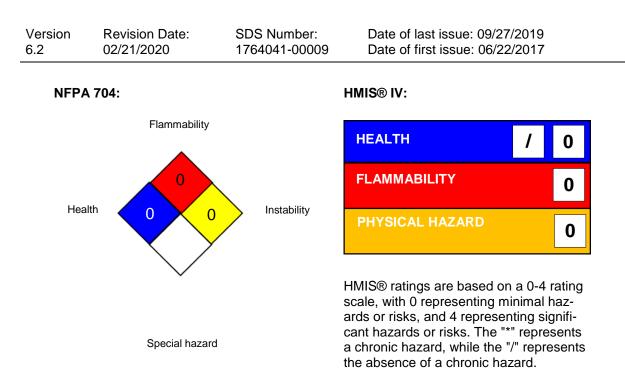
WARNING: This product can expose you to chemicals including pentadecafluorooctanoic acid, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Note to User: This product is not made with PFOA nor is PFOA intentionally present in the product; however, it is possible that PFOA may be present as an impurity at background (environmental) levels.

SECTION 16. OTHER INFORMATION

Further information



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

Full text of other abbreviations

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



Krytox[™] XHT-BDX

Version	Revision Date:	SDS Number:	Date of last issue: 09/27/2019
6.2	02/21/2020	1764041-00009	Date of first issue: 06/22/2017

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

: 02/21/2020

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.

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