

Krytox[™] XHT-ACX

Versi 5.6	ion	Revision Date: 04/12/2022		0S Number: 88895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017					
SEC	SECTION 1. IDENTIFICATION									
	Product name		:	: Krytox™ XHT-ACX						
	Produc	t code	:	D12434528						
	SDS-Id	entcode	:	130000031594						
	Manufa	acturer or supplier's o	deta	nils						
	Compa	ny name of supplier	:	The Chemours Company FC, LLC						
	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)						
	Telepho	one	:	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 (outsic the U.S. +1-703-527-3887)						
	Recom	mended use of the c	hen	nical and restriction	ons on use					
	Recommended use		:	: Lubricant						
	Restrict	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

Chemical name	CAS-No.	Concentration (% w/w)



Krytox™ XHT-ACX

Version 5.6	Revision Date: 04/12/2022	SDS Number: 1788895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017					
	Im nitrite Il concentration is withh	7632-00-0 eld as a trade secret	>= 1 - < 5					
SECTION	4. FIRST AID MEASU	RES						
lf inha	aled	: If inhaled, remo Get medical att	ove 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		ention if irritation develops and persists.					
lf swa	allowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.						
	important symptoms iffects, both acute and ed	Irritation Lung edema Eye contact ma Blurred vision Discomfort Lachrymation Skin contact ma Irritation Redness	provoke the following symptoms: ay provoke the following symptoms ay provoke the following symptoms: provoke the following symptoms: eath					
Prote	ction of first-aiders	: No special prec	cautions are necessary for first aid responders.					
Notes	s to physician	: Treat symptom	atically 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 Nitrogen oxides (NOx)



Krytox[™] XHT-ACX

Versie 5.6	on	Revision Date: 04/12/2022		9S Number: 88895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	•	protective equipment fighters	:	necessary.	ed breathing apparatus for firefighting if tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. 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	:	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 be 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 dispo- sal of this material, as well as those materials and items em- ployed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding 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.	



Version 5.6	Revision Date: 04/12/2022		DS Number: 788895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017			
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.				
	ner information on stor- stability	:	No decompositio	n if stored and applied as directed.			

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	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
		С	6 ppm 5 mg/m³	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

easures : Processing may form hazardous compounds (see section



Version 5.6	Revision Date: 04/12/2022		DS Number: 88895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017	
				ventilation, especially in confined areas. ce exposure concentrations.	
Pers	sonal protective equipr	nent			
Res	Personal protective equipm Respiratory 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.		
Han	d protection				
F	Remarks	:	Wash hands befo	re breaks and at the end of workday.	
Eye	protection	:	Wear the following Safety glasses	g personal protective equipment:	
Skir	and body protection	:	Skin should be wa	ashed after contact.	
Hyg	iene 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



Krytox™ XHT-ACX

Ver 5.6	sion	Revision Date: 04/12/2022		S Number: 38895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017
	Flash p	point		Not applicable	
			•		
	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	Will not burn	
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapor p	oressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	1.89 - 1.93	
	Solubili Wat	ity(ies) ter solubility	:	insoluble	
	Partitio octanol	n coefficient: n- I/water	:	Not applicable	
	Autoigr	nition temperature	:	No data available	9
	Decom	position temperature	:	608 °F / 320 °C	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle	e size	:	No data available	3

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



rsion	Revision Date: 04/12/2022	SDS Number:Date of last issue: 09/15/20211788895-00012Date of first issue: 06/26/2017
		Carbonyl difluoride Carbon dioxide Carbon monoxide
CTION	11. TOXICOLOGICA	
Inform	mation on likely rou	tes of exposure
Inges	contact tion contact	
Acute	e toxicity	
Not cl	lassified based on av	ailable information.
Produ		
Acute	e oral toxicity	: Assessment: The substance or mixture has no acute oral to icity
Acute	inhalation toxicity	: Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
<u>Com</u>	oonents:	
Sodiu	um nitrite:	
Acute	oral toxicity	: LD50 (Rat): 180 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 5.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
	corrosion/irritation	
	lassified based on av	ailable information.
	oonents:	
Sodit Speci	um nitrite:	: Rabbit
Metho	bd	: OECD Test Guideline 404 : No skin irritation
	us eye damage/eye	
	lassified based on av	
<u>Com</u>	oonents:	
Sodiu	um nitrite:	
Speci	es	: Rabbit
Resul Metho		: Irritation to eyes, reversing within 21 days
	JU	: OECD Test Guideline 405



sion	Revision Date: 04/12/2022	SDS Number: 1788895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017
Resp	iratory or skin sens	itization	
-	sensitization assified based on av	ailable information.	
-	iratory sensitization assified based on av		
	cell mutagenicity assified based on av	ailable information.	
Com	oonents:		
Sodiu	ım nitrite:		
	toxicity in vitro	: Test Type: Bao Result: positive	eterial reverse mutation assay (AMES)
		Test Type: In v Result: positive	itro mammalian cell gene mutation test
Geno	toxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
		cytogenetic as Species: Rat	ute: Intraperitoneal injection
Carci	nogenicity		
	assified based on av	ailable information.	
	oonents:		
Speci Applic	cation Route sure time	: Rat : Ingestion : 2 Years : negative	
IARC	Sodium nit		to humans 7632-00-0 s that result in endogenous nitrosation)
OSH/		nent of this product pre s list of regulated carcir	sent at levels greater than or equal to 0.1% nogens.
NTP			ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.



ersion .6	Revision Date: 04/12/2022	-	0S Number: 88895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017
Comp	oonents:			
	i m nitrite: s on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effect	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : Ingestion
	-single exposure assified based on availa	blo	information	
	-repeated exposure	DIE	inionnaion.	
Not cla	assified based on availa	ble	information.	
Repea	ated dose toxicity			
<u>Comp</u>	oonents:			
	ım nitrite:			
Specie NOAE		:	Rat 10 mg/kg	
	ation Route sure time	:	Ingestion 2 y	
Not cl	ation toxicity assified based on availa 12. ECOLOGICAL INFO			
Ecoto	oxicity			
<u>Comp</u>	onents:			
Sodiu	m nitrite:			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.54 mg/l ን h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	EC50 (Scenedesr 100 mg/l Exposure time: 72 Method: OECD Te	mus capricornutum (fresh water algae)): > 2 h est Guideline 201
			NOEC (Scenedes mg/l Exposure time: 72	smus capricornutum (fresh water algae)): 10 2 h



Krytox™ XHT-ACX

/ers 5.6	ion	Revision Date: 04/12/2022		0S Number: 88895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017
				Method: OECD T	est Guideline 201
	Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 30	carpio (Carp)): 21 mg/l 0 d est Guideline 210
		to daphnia and other invertebrates (Chron- ty)		NOEC (Penaeid S Exposure time: 80	Shrimp): 9.86 mg/l 0 d
	Toxicity	to microorganisms	:	EC50: 281 mg/l Exposure time: 48	8 h
		ence and degradabil a available	ity		
		umulative potential			
	No data	a available			
		y in soil			
	No data	a available			
	Other a	dverse effects			
	No data	a available			

Disnosal	methods
Dispusai	memous

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

UN/ID/NA number	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s.



Krytox[™] XHT-ACX

Version	Revision Date:	SDS Number:	Date of last issue: 09/15/2021
5.6	04/12/2022	1788895-00012	Date of first issue: 06/26/2017
Labels ERG (Code e pollutant	SIZES WHER	INFORMATION ONLY APPLIES TO PACKAGE THE HAZARDOUS SUBSTANCE MEETS FABLE QUANTITY.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium nitrite	7632-00-0	100	5050

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 Hazard	S	
SARA 313	:		nponents are subject to A Title III, Section 313:	
		Sodium nitrite	7632-00-0	>= 1 - < 5 %

US State Regulations

Pennsylvania Right To Know

PFPE fluid Fluoropolymer Sodium nitrite Trade secret Trade secret 7632-00-0

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

Sodium nitrite

Additional regulatory information

7632-00-0



Krytox™ XHT-ACX

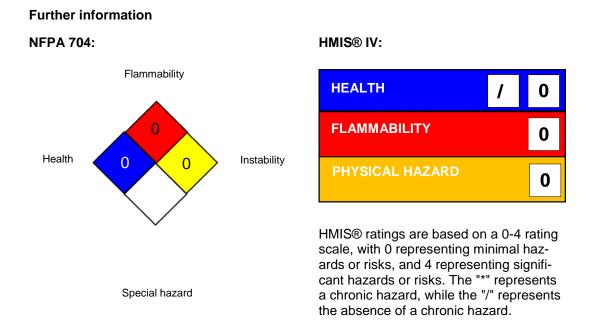
SDS Number. Date of first issue: 06/26/2017 5.6 04/12/2022 1788895-00012 Date of first issue: 06/26/2017	Version 5.6		SDS Number: 1788895-00012	Date of last issue: 09/15/2021 Date of first issue: 06/26/2017	
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Sodium nitrite

7632-00-0

The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740

SECTION 16. OTHER INFORMATION



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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 t	ext of	other	abbreviations
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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[™] XHT-ACX

Version	Revision Date:	SDS Number:	Date of last issue: 09/15/2021
5.6	04/12/2022	1788895-00012	Date of first issue: 06/26/2017

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 Agen- cy, http://echa.europa.eu/
Data Sheet		cy, mp.//echa.eu/opa.eu/

Revision Date

: 04/12/2022

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