

Krytox[™] XHT-ACX

Vers 6.0	sion	Revision Date: 11/08/2022		0S Number: 88895-00013	Date of last issue: 04/12/2022 Date of first issue: 06/26/2017				
SEC	TION 1	. IDENTIFICATION							
Product name		:	: Krytox™ XHT-ACX						
	Produc	t code	:	D12434555					
	SDS-Id	entcode	:	130000031594					
	Manufa	acturer or supplier's o	deta	iils					
	Compa	ny name of supplier	:	The Chemours Co	ompany FC, LLC				
	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)					
	Teleph	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 (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

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



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	Im nitrite Il concentration is withh	7632-00-0 eld as a trade secre						
SECTION	4. FIRST AID MEASU	RES						
lf inha	aled		ove to fresh air. tention if symptoms occur.					
In cas	se of skin contact		Wash with water and soap as a precaution. Get medical attention if symptoms occur.					
In cas	se of eye contact	: Flush eyes wit Get medical a	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.					
lf swa	llowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.						
	important symptoms ffects, both acute and ed	Irritation Lung edema Eye contact m Blurred vision Discomfort Lachrymation Skin contact m Irritation Redness	y provoke the following symptoms: ay provoke the following symptoms hay provoke the following symptoms: y provoke the following symptoms: hreath					
Prote	ction of first-aiders	: No special pre	cautions are necessary for first aid responders.					
Notes	to physician	: Treat sympton	natically 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)



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S	Specific	extinguishing meth-	:	Metal oxides Use extinguishing	measures that are appropriate to local cir-	
0	ods		cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is sa so. Evacuate area.			
		protective equipment ighters	:	necessary.	ed breathing apparatus for firefighting if ective 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.		



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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	on 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
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/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	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

asures : Processing may form hazardous compounds (see section



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				ventilation, especially in confined areas. ce exposure concentrations.	
Pers	sonal protective equipr	nent			
Res	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 followin Safety glasses	g personal protective equipment:	
Skin	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



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	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	Will not burn	
		explosion limit / Upper bility limit	:	No data available	9
		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	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available	9
	Decom	position temperature	:	608 °F / 320 °C	
	Viscosi [.] Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	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 : Hydrogen fluoride



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		Carbonyl Carbon di Carbon m	oxide
SECTION	11. TOXICOLOGICA	L INFORMATION	
Inform	nation on likely rou	es of exposure	
Skin o Inges	contact		
	e toxicity		
	assified based on av	ailable information	
Produ			
-	oral toxicity	: Assessme icity	nt: The substance or mixture has no acute oral tox
Acute	inhalation toxicity	Exposure t Test atmos	city estimate: > 200 mg/l time: 4 h sphere: dust/mist alculation method
Comp	oonents:		
Sodiu	ım nitrite:		
Acute	oral toxicity	: LD50 (Rat): 180 mg/kg
Acute	inhalation toxicity	: LC50 (Rat Exposure Test atmos	
II Skin /	corrosion/irritation		
	assified based on av	ailable information	
	oonents:		
Speci	ım nitrite:	: Rabbit	
Metho Resul	bd		st Guideline 404 itation
Serio	us eye damage/eye	irritation	
	assified based on av		
Com	oonents:		
Sodi	ım nitrite:		
Speci		: Rabbit	
Resul	t	: Irritation to	eyes, reversing within 21 days st Guideline 405
Metho	Ju		a Guideillie 405



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Respi	ratory or skin sensi	tization	
Skin s	ensitization		
Not cla	assified based on ava	ailable information.	
Respi	ratory sensitization		
Not cla	assified based on ava	ailable information.	
	cell mutagenicity		
Not cla	assified based on ava	ailable information.	
<u>Comp</u>	onents:		
Sodiu	m nitrite:		
Genot	oxicity in vitro	: Test Type: Bac Result: positive	eterial reverse mutation assay (AMES)
		Test Type: In v Result: positive	itro mammalian cell gene mutation test
Genotoxicity in vivo		: Test Type: Mar cytogenetic ass Species: Mous	
			ute: Intraperitoneal injection
		Test Type: Mar cytogenetic ass Species: Rat	mmalian erythrocyte micronucleus test (in viv say)
			ute: Intraperitoneal injection e
Carci	nogenicity		
Not cla	assified based on ava	ailable information.	
<u>Comp</u>	onents:		
Sodiu	m nitrite:		
Specie		: Rat	
	ation Route ure time	: Ingestion : 2 Years	
Result		: negative	
IARC		Probably carcinogenic	to humans
	Sodium nit (nitrite (ing		7632-00-0 s that result in endogenous nitrosation)
OSHA		nent of this product pre s list of regulated carcir	sent at levels greater than or equal to 0.1% i nogens.
NTP			ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.

Not classified based on available information.



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Com	ponents:		
Sodi	um nitrite:		
Effec	cts on fertility	Species: Mo	Route: Ingestion
Effec	cts on fetal development	Species: Ra	Route: Ingestion
STO	T-single exposure		
	classified based on availa	able information.	
STO	T-repeated exposure		
	classified based on availa	able information.	
Repe	eated dose toxicity		
Com	ponents:		
Sodi	um nitrite:		
		: Rat : 10 mg/kg : Ingestion : 2 y	
•	ration toxicity classified based on availa	able information.	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Sodium nitrite:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 15.4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Scenedesmus capricornutum (fresh water algae)): 100 mg/l Exposure time: 72 h



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icity) Toxicit	y to fish (Chronic tox- y to daphnia and other	:	Exposure time: 30 Method: OECD T NOEC (Penaeid S	carpio (Carp)): 21 mg/l 0 d est Guideline 210 Shrimp): 9.86 mg/l
aquatio ic toxic	c invertebrates (Chron- city)		Exposure time: 80) d
Toxicit	y to microorganisms	:	EC50: 281 mg/l Exposure time: 48	3 h
	tence and degradabil	ity		
	cumulative potential a available			
	ty in soil a available			
Other	adverse effects a available			
SECTION 1	13. DISPOSAL CONSI	DEF	ATIONS	

Disnosal	methods	

Biopodal modilodo		
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.



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Labels ERG (Code e pollutant	SIZES WHER	INFORMATION ONLY APPLIES TO PACKAGE RE THE HAZARDOUS SUBSTANCE MEETS TABLE 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	:	The following components are subject to reporting levels es tablished by SARA 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 cancer, and 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

7632-00-0



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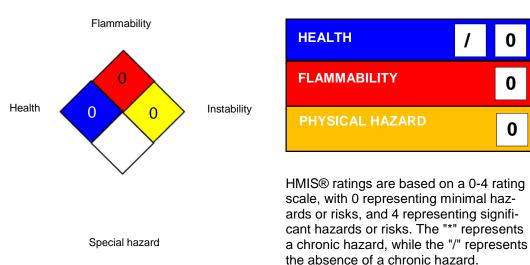
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Additional regulatory information							

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

Further information

NFPA 704:



HMIS® IV:

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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
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



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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	:	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/

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

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