

## Krytox<sup>™</sup> XHT-ACX

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Version 6.1	Revision Date: 04/03/2023		9S Number: 88895-00014	Date of last issue: 11/08/2022 Date of first issue: 06/26/2017				
SECTION	1. IDENTIFICATION							
Prod	Product name		: Krytox™ XHT-ACX					
SDS	-Identcode	:	130000031594					
Man	ufacturer or supplier's o	deta	ils					
Com	pany name of supplier	:	The Chemours Co	ompany FC, LLC				
Addr	ess	: 1007 Market Street Wilmington, DE 19801 United States of America (USA)						
Tele	Telephone		1-844-773-CHEM (outside the U.S. 1-302-773-1000)					
Eme	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)					
Reco	ommended use of the c	hem	nical and restriction	ons on use				
Reco	ommended use	:	Lubricant					
Rest	rictions on use	:	tions involving imp internal body fluid written agreement	only. ell Chemours™ materials in medical applica- plantation in the human body or contact with s or tissues unless agreed to by Seller in a 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

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### 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)
Sodium nitrite	7632-00-0	>= 1 - < 5



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Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES						
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.				
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.				
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.				
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.				
Most important symptoms and effects, both acute and delayed	:	Inhalation may provoke the following symptoms: Irritation Lung edema Eye contact may provoke the following symptoms Blurred vision Discomfort Lachrymation Skin contact may provoke the following symptoms: Irritation Redness Inhalation may provoke the following symptoms: Irritation Shortness of breath				
Protection of first-aiders	:	No special precautions are necessary for first aid responders.				
Notes to physician	:	Treat symptomatically 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) Metal oxides



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	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
	Special for fire-l	protective equipment fighters	:	necessary.	ed breathing apparatus for firefighting if rective 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.
Conditions for safe storage	:	Keep in properly labeled containers.



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			Store in accordar	nce 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.			

## 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/m³	NIOSH REL
		TWA	3 ppm 2.5 mg/m <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	NIOSH REL
		ST	30,000 ppm 54,000 mg/m <sup>3</sup>	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m³	OSHA Z-1
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m <sup>3</sup>	NIOSH REL
		C	200 ppm 229 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 55 mg/m³	OSHA Z-1

Engineering measures

Processing may form hazardous compounds (see section 10).

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			Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.				
Perso	onal protective equip	ment					
Resp	iratory protection	:	maintain vapor concentrations unknown, appr Follow OSHA r use NIOSH/MS by air purifying dous chemical respirator if the exposure levels	cal exhaust ventilation is recommended to exposures below recommended limits. Where are above recommended limits or are opriate respiratory protection should be worn. espirator regulations (29 CFR 1910.134) and SHA approved respirators. Protection provided respirators against exposure to any hazar- is limited. Use a positive pressure air supplied ere is any potential for uncontrolled release, s are unknown, or any other circumstance ying respirators may not provide adequate			
Hand	protection						
Re	emarks	:	Wash hands be	efore breaks and at the end of workday.			
Eye p	protection	:	Wear the follov Safety glasses	ving personal protective equipment:			
Skin a	and body protection	: Skin should be washed after c		washed after contact.			
Hygie	ene measures	:	eye flushing sy king place. When using do	chemical is likely during typical use, provide stems and safety showers close to the wor- o not eat, drink or smoke. nated 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	ooint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	Will not burn	
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapor p	oressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	1.89 - 1.93	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	nition temperature	:	No data available	)
	Decom	position temperature	:	608 °F / 320 °C	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve 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 : Hydrogen fluoride



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		Carbonyl difluoride Carbon dioxide Carbon monoxide
ECTION	11. TOXICOLOGICA	
Infor	nation on likely rou	tes of exposure
Inges	contact tion ontact	
Acute	e toxicity	
Not c	assified based on av	ailable information.
Produ		· · · · · · · · · · · · · · · · · · ·
Acute	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	
	assified based on av	ailable information.
	oonents:	
	um nitrite:	
Speci Metho	bd	: Rabbit : OECD Test Guideline 404
Resu	t	: No skin irritation
	us eye damage/eye assified based on av	
	oonents:	
-	um nitrite:	
Speci		: Rabbit
Resu	lt	: Irritation to eyes, reversing within 21 days
Metho	hd	: OECD Test Guideline 405



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Resp	iratory or skin sens	itization						
	<b>sensitization</b> lassified based on av	ailable information.						
-	<b>iratory sensitizatior</b> lassified based on av	tory sensitization sified based on available information.						
	<b>m cell mutagenicity</b> classified based on available information.							
Com	ponents:							
Sodi	um nitrite:							
Geno	toxicity in vitro	: Test Type: Bac Result: positive	eterial reverse mutation assay (AMES)					
		Test Type: In v Result: positive	itro mammalian cell gene mutation test					
Geno	toxicity in vivo	cytogenetic ass Species: Mous	e ute: Intraperitoneal injection					
		cytogenetic ass Species: Rat	ute: Intraperitoneal injection					
Carc	nogenicity							
Not c	lassified based on av	ailable information.						
<u>Com</u>	ponents:							
Sodi	um nitrite:							
Spec Appli	ies cation Route	: Rat : Ingestion						
	sure time	: 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% i logens.					
NTP			ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.					

## Reproductive toxicity

Not classified based on available information.



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<u>Comp</u>	onents:			
	<b>Sodium nitrite:</b> Effects on fertility		Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study :: Ingestion
Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development :: Ingestion
	single exposure assified based on availa	able	information.	
	repeated exposure assified based on availa	able	information.	
Repea	ted dose toxicity			
Comp	<u>onents:</u>			
	m nitrite:			
Specie NOAE		:	Rat 10 mg/kg	
Applica	ation Route ure time	:	Ingestion 2 y	
Not cla	ation toxicity assified based on availa			
Ecoto	xicity			
<u>Comp</u>	onents:			
Sodiu	m nitrite:			
Toxicit	y to fish	:	LC50 (Oncorhyno Exposure time: 90	chus mykiss (rainbow trout)): 0.54 mg/l 6 h
	y to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): 15.4 mg/l 3 h est Guideline 202
Toxicit plants	y to algae/aquatic	:	EC50 (Scenedest 100 mg/l Exposure time: 72 Method: OECD T	
			NOEC (Scenedes mg/l Exposure time: 72	smus capricornutum (fresh water algae)): 100 2 h



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				Method: OECD T	est Guideline 201
	Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Cyprinus Exposure time: 30 Method: OECD T	
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Penaeid Shrimp): 9.86 mg/l Exposure time: 80 d	
	Toxicity	/ to microorganisms	:	EC50: 281 mg/l Exposure time: 48	3 h
		t <b>ence and degradabil</b> i a available	ity		
		<b>sumulative potential</b> a available			
		a available			
	Other a	adverse effects			
	No data	a available			
SEC	TION 1	3. DISPOSAL CONSI	DER	ATIONS	

#### **Disposal methods**

Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
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



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Proper shipping name		: Environment (Sodium nitr	ally hazardous substance, solid, n.o.s. ite)
Class		: 9	
Packi	ng group	: 111	
Label	S	: CLASS 9	
ERG	Code	: 171	
Marin	e pollutant	: no	
Remarks		SIZES WHEI	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 tablished by SARA Title III, Section 313:		reporting levels es-
		Sodium nitrite	7632-00-0	>= 1 - < 5 %

#### US State Regulations

#### Pennsylvania Right To Know

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



1

0

0

0

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#### Additional regulatory information

Sodium nitrite

7632-00-0

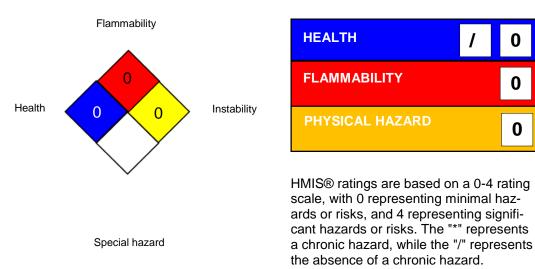
The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740

HMIS® IV:

### **SECTION 16. OTHER INFORMATION**

#### **Further information**

NFPA 704:



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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

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: 04/03/2023

Revision Date

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