

Versi 6.1	ion	Revision Date: 04/14/2023		OS Number: 90283-00014	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
SECI	TION 1	. IDENTIFICATION			
F	Produc	t name	:	Krytox™ 283AC	
F	Produc	t code	:	D12340468	
ç	SDS-Id	entcode	:	130000031472	
I	Manufa	acturer or supplier's	deta	ails	
(Compa	ny name of supplier	:	The Chemours C	ompany FC, LLC
l	Addres	S	:	1007 Market Stre Wilmington, DE 1	et 9801 United States of America (USA)
-	Telepho	one	:	1-844-773-CHEN	(outside the U.S. 1-302-773-1000)
E	Emerge	ency telephone	:		cy: 1-866-595-1473 (outside the U.S. 1-302- nsport emergency: +1-800-424-9300 (outside 527-3887)
F	Recom	mended use of the c	hen	nical and restriction	ons on use
F	Recom	mended use	:	Lubricant	
F	Restric	tions on use	:	tions involving im internal body fluic 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 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

SAFETY DATA SHEET



Krytox™ 283AC

Version 6.1	Revision Date: 04/14/2023	SDS Nu 179028	umber: 3-00014		e of last issue: 11/03/2022 e of first issue: 06/27/2017			
Chem	lical name		CAS-No.		Concentration (% w/w)			
	m nitrite		7632-00-0		>= 1 - < 5			
Actua	I concentration is withhe	eld as a tr	ade secret					
SECTION	4. FIRST AID MEASUF	RES						
lf inha	aled		: If inhaled, remove to fresh air. Get medical attention if symptoms occur.					
In cas	e of skin contact		Wash with water and soap as a precaution. Get medical attention if symptoms occur.					
In cas	e of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.					
lf swa	llowed	Get	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.					
	important symptoms ffects, both acute and ed	Irrita Lun Eye Blur Disc Lacl Skir Irrita Red Inha Irrita	ation g edema contact ma red vision comfort hrymation n contact ma ation lness	y provo ay provo provoke	e the following symptoms: ke the following symptoms oke the following symptoms: e the following symptoms:			
Prote	ction of first-aiders	: No s	special prec	autions	are necessary for first aid responders.			
Notes	to physician	: Trea	at symptoma	atically a	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



/ersion 5.1	Revision Date: 04/14/2023		0S Number: 90283-00014	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
			Nitrogen oxides (I Metal oxides	NOx)
Speci ods	fic 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
	al protective equipment e-fighters	:	Wear self-contain necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- quipment and emer- / procedures	:		ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	onmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ods and materials for inment and cleaning up	:		absorbent material. rovide diking or other appropriate contain-

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.

which regulations are applicable.

certain local or national requirements.

bent.

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-

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine

Sections 13 and 15 of this SDS provide information regarding



Version 6.1	Revision Date: 04/14/2023	SDS Number: 1790283-00014	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
Cond	itions for safe storage		erly labeled containers. dance with the particular national regulations.
Mate	rials to avoid	: No special res	strictions on storage with other products.
	er information on stor- tability	: No decompos	ition 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 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



Versio 6.1	on	Revision Date: 04/14/2023		OS Number: 90283-00014	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
E	Engine	ering measures	:	10). Ensure adequate	orm hazardous compounds (see section ventilation, especially in confined areas. ce exposure concentrations.
P	Person	al protective equipm	ent		
R	Respira	itory 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	e exhaust ventilation is recommended to posures below recommended 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, re unknown, or any other circumstance g respirators may not provide adequate
F	Hand p	rotection			
	Rem	narks	:	Wash hands befo	re breaks and at the end of workday.
E	Eye pro	tection	:	Wear the followin Safety glasses	g personal protective equipment:
S	Skin an	d body protection	:	Skin should be wa	ashed after contact.
F	Hygiene	e 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	:	No data available



Ver 6.1	sion	Revision Date: 04/14/2023		S Number: 00283-00014	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
	range				
	Flash po	pint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	bility (solid, gas)	:	Will not burn	
		xplosion limit / Upper pility limit	:	No data available	
		xplosion limit / Lower bility limit	:	No data available	
	Vapor p	ressure	:	1.89 - 1.93 hPa	
	Relative	vapor density	:	Not applicable	
	Relative	density	:	1.89 - 1.93	
	Solubilit Wate	y(ies) er solubility	:	insoluble	
	Partitior octanol/	i coefficient: n- water	:	Not applicable	
	Autoign	ition temperature	:	No data available)
	Decomp	oosition temperature	:	608 °F / 320 °C	
	Viscosit Visco	y osity, kinematic	:	Not applicable	
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	g 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.
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.

SAFETY DATA SHEET



Krytox™ 283AC

Version 6.1	Revision Date: 04/14/2023		S Number: 90283-00014	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
Hazar	dous decompositio	n prod	lucts	
	nal decomposition	:		oride e
SECTION	11. TOXICOLOGICA	LINFO	ORMATION	
	nation on likely rou	tes of e	exposure	
Ingest	contact tion ontact			
Acute	toxicity			
	assified based on av	ailable	information.	
Produ	ıct:			
-	oral toxicity	:	Assessment: T icity	he substance or mixture has no acute oral tox
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: dust/mist
Comp	oonents:			
Sodiu	ım nitrite:			
Acute	oral toxicity	:	LD50 (Rat): 18	0 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 5.5 Exposure time: Test atmosphe	4 h
	corrosion/irritation assified based on av	ailable	information.	
Comp	oonents:			
-	ım nitrite:			
Speci			Rabbit	
Metho		:	OECD Test Gu	ideline 404
Resul	t	:	No skin irritatio	n
	us eye damage/eye			
	assified based on ava	allable		
	oonents:			
	ım nitrite:		Data	
Speci Resul		:	Rabbit Irritation to eye	s, reversing within 21 days
			7 / 14	



ł			
	: OECD Test Guid	deline 405	
atory or skin sens	itization		
ensitization			
ssified based on av	ailable information.		
atory sensitizatior	ı		
ssified based on av	ailable information.		
cell mutagenicity			
ssified based on av	ailable information.		
onents:			
n nitrite:			
xicity in vitro	: Test Type: Bacte Result: positive	erial reverse mutation assay (AMES)	
	Test Type: In vit Result: positive	ro mammalian cell gene mutation test	
oxicity in vivo	cytogenetic assa		
	Application Rout	e: Intraperitoneal injection	
	cytogenetic assa Species: Rat	e: Intraperitoneal injection	
ogenicity			
	ailable information.		
onents:			
	: Rat		
ation Route	: Ingestion		
ire time			
	. negative		
Sodium ni	Group 2A: Probably carcinogenic to humans Sodium nitrite 7632-00-0 (nitrite (ingested) under conditions that result in endogenous nitrosation)		
		ent at levels greater than or equal to 0.1% i ogens.	
		nt at levels greater than or equal to 0.1% is d carcinogen by NTP.	
	atory sensitization ssified based on av cell mutagenicity ssified based on av onents: m nitrite: oxicity in vitro oxicity in vitro	ssified based on available information. atory sensitization ssified based on available information. cell mutagenicity ssified based on available information. onents: n nitrite: oxicity in vitro : Test Type: Back Result: positive Test Type: In vitt Result: positive oxicity in vivo : Test Type: Mam cytogenetic assa Species: Mouse Application Rout Result: negative Test Type: Mam cytogenetic assa Species: Rouse Application Rout Result: negative ogenicity ssified based on available information. onents: n nitrite: s : Rat ation Route : Ingestion ure time : 2 Years : negative Group 2A: Probably carcinogenic to Sodium nitrite (nitrite (ingested) under conditions No component of this product press on OSHA's list of regulated carcino	

Revision Date:

04/14/2023

SDS Number:

1790283-00014



Date of last issue: 11/03/2022

Date of first issue: 06/27/2017

Krytox™ 283AC

Version

6.1

<u>Components:</u>		
Sodium nitrite:		
Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative
STOT-single exposure		
Not classified based on availa	ble	information.
STOT-repeated exposure		
Not classified based on availa	ble	information.
Repeated dose toxicity		
Components:		
Sodium nitrite:		
Species	:	Rat
NOAEL Application Route	÷	10 mg/kg Ingestion
Exposure time	:	2 y
Aspiration toxicity Not classified based on availa		
Ecotoxicity		
-		
Components:		
Sodium nitrite:		LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l
Sodium nitrite: Toxicity to fish		Exposure time: 96 h
Toxicity to fish Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 15.4 mg/l
Toxicity to fish		
Toxicity to fish Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic		EC50 (Daphnia magna (Water flea)): 15.4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Scenedesmus capricornutum (fresh water algae
Toxicity to fish Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 15.4 mg/l Exposure time: 48 h



rsion	Revision Date: 04/14/2023		DS Number: 90283-00014	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
			mg/I Exposure time: 7	smus capricornutum (fresh water algae)): 100 2 h est Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 3	carpio (Carp)): 21 mg/l 0 d est Guideline 210
	ty to daphnia and other c invertebrates (Chron- city)		NOEC (Penaeid S Exposure time: 8	Shrimp): 9.86 mg/l 0 d
Toxici	ty to microorganisms	:	EC50: 281 mg/l Exposure time: 4	8 h
	stence and degradabil ta available	ity		
	cumulative potential ta available			
	ity in soil ta available			
	adverse effects ta available			

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



Version 6.1	Revision Date: 04/14/2023		DS Number: 90283-00014	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
40.0				
49 C				
UN/	ID/NA number	:	UN 3077	
Prop	per shipping name	:	Environmentally I	nazardous substance, solid, n.o.s.
			(Sodium nitrite)	
Clas	S	:	9	
Pac	king group	:	111	
Lab		:	CLASS 9	
ERC	GCode		171	
	ine pollutant		no	
	narks	:		ORMATION ONLY APPLIES TO PACKAGE
Ren	Idiks	•		
				HE HAZARDOUS SUBSTANCE MEETS
			THE REPORTAE	LE 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	2020

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	:	•	ponents 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 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.

Revision Date:

Krytox™ 283AC

Version

6.1	04/14/2023	1790283-00014	Date of first issue: 06/27/2017
Ca	alifornia List of Hazaro	dous Substances	
	Sodium nitrite		7632-00-0
A	dditional regulatory in	formation	
So	odium nitrite	7632-00-0	
		ntal Protection Agency (U mponents in this product	SEPA) has established a Significant New Use

SDS Number:

See 40 CFR § 721.4740

SECTION 16. OTHER INFORMATION

Further information NFPA 704: HMIS® IV: Flammability HEALTH 1 0 FLAMMABILITY 0 Health Instability 0 0 **PHYSICAL HAZARD** 0 HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents Special hazard the absence of a chronic hazard.

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

Full text of other abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	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



Date of last issue: 11/03/2022



Version	Revision Date:	SDS Number:	Date of last issue: 11/03/2022
6.1	04/14/2023	1790283-00014	Date of first issue: 06/27/2017
			at he exceeded at any time

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

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 Agency, http://echa.europa.eu/

Revision Date

: 04/14/2023

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.



	Date of last issue: 11/03/2022 Date of first issue: 06/27/2017
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