according to the OSHA Hazard Communication Standard



Corrugator Krytox[™] 227 FG

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SECTI	ON 1. IDENTIFICATION		
Pr	oduct name	: Corrugator Kry	tox™ 227 FG
SE	DS-Identcode	: 130000031400)
Ma	anufacturer or supplier's	details	
	ompany name of supplier		Company FC, LLC
Ac	ldress	: 1007 Market St Wilmington, DE	reet 19801 United States of America (USA)
Te	lephone	: 1-844-773-CHE	EM (outside the U.S. 1-302-773-1000)
Er	nergency telephone		ency: 1-866-595-1473 (outside the U.S. 1-302- ransport emergency: +1-800-424-9300 (outside 3-527-3887)
Re	ecommended use of the	chemical and restric	tions on use
Re	ecommended use	: Lubricant	
Re	estrictions on use	tions involving internal body flu written agreem	se only. esell Chemours™ materials in medical applica- implantation in the human body or contact with uids or tissues unless agreed to by Seller in a ent covering such use. For further information, your 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

according to the OSHA Hazard Communication Standard



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	m nitrite I concentration is withh	7632-00-0 eld as a trade secret	>= 1 - < 5	
ECTION	4. FIRST AID MEASUR	RES		
lf inha	aled	: If inhaled, remo Get medical atte	ve to fresh air. ention if symptoms occur.	
In cas	se of skin contact		r and soap as a precaution. ention if symptoms occur.	
In cas	se of eye contact		water as a precaution. ention if irritation develops and persists.	
lf swa	llowed	Get medical atte	D NOT induce vomiting. ention if symptoms occur. proughly with water.	
	important symptoms ffects, both acute and ed	Irritation Lung edema Eye contact ma Blurred vision Discomfort Lachrymation Skin contact ma Irritation Redness	provoke the following symptoms: y provoke the following symptoms y provoke the following symptoms: provoke the following symptoms: eath	
Prote	ction of first-aiders	: No special prec	autions are necessary for first aid responde	ers.
Notes	to physician	: Treat symptoma	tically and supportively.	

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

according to the OSHA Hazard Communication Standard



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				Nitrogen oxides (N Metal oxides	NOx)		
	Specific extinguishing meth- ods		:	cumstances and t Use water spray to	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 protective equipment for fire-fighters		:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.			
SEC	TION 6	ACCIDENTAL RELE	ASI	EMEASURES			
	Personal precautions, protec- tive equipment and emer- gency procedures Environmental precautions		:		ng advice (see section 7) and personal pro- recommendations (see section 8).		
			:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages		
	Methods and materials for containment 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. og 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.

according to the OSHA Hazard Communication Standard



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			Do not breathe	decomposition products.
Cond	litions for safe storage	:		/ labeled containers. ance with the particular national regulations.
Mate	rials to avoid	:	No special restr	ctions on storage with other products.
	er information on stor- stability	:	No decomposition	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	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Hydrogen fluoride	7664-39-3	TŴA	0.5 ppm (Fluorine)	ACGIH
		C	2 ppm (Fluorine)	ACGIH
		C	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/m³	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	NIOSH REL

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1		1			229 mg/m ³	1
				TWA	50 ppm 55 mg/m ³	OSHA Z-1
Engir	neering measures	:	10). Ensure adequ	ate ventilatio	rdous compounds (see n, especially in confine ure concentrations.	
Perso	onal protective equip	ment				
Respi	iratory protection	:	maintain vapo concentration unknown, app Follow OSHA use NIOSH/M by air purifying dous chemica respirator if th exposure leve	or exposures s are above r propriate resp respirator reg ISHA approve g respirators Il is limited. U ere is any po els are unknow	ventilation is recomme below recommended I ecommended limits or iratory protection shou gulations (29 CFR 191 ed respirators. Protecti against exposure to ar se a positive pressure tential for uncontrolled wn, or any other circur ors may not provide ad	imits. Where are ald be worn. 0.134) and on provided ny hazar- air supplied I release, nstance
Hand	protection					
Re	emarks	:	Wash hands b	pefore breaks	and at the end of wor	kday.
Eye p	rotection	:	Wear the follo Safety glasse		al protective equipmen	t:
Skin a	and body protection	:	Skin should b	e washed afte	er contact.	
Hygie	ne measures	:	eye flushing s king place. When using d	ystems and s o not eat, drii	ikely during typical use afety showers close to nk or smoke. ng before re-use.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grease
Color	:	white
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	7

according to the OSHA Hazard Communication Standard



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	Melting	point/freezing point	:	608 °F / 320 °C	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	Will not burn	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relative	e density	:	1.89 - 1.93 (75 °F	7 / 24 °C)
	Solubili Wat	ity(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	
	Oxidiziı	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Particle Particle	e characteristics e size	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.

Result

according to the OSHA Hazard Communication Standard



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	ossibility of hazardous reac- ns	:	Hazardous deco temperatures.	mposition products will be formed at elevated
Co	onditions to avoid	:	None known.	
Ind	Incompatible materials		None.	
На	Hazardous decomposition p		ucts	
	ermal decomposition		Hydrogen fluorid Carbonyl difluori Carbon dioxide Carbon monoxid	de
SECTI	ON 11. TOXICOLOGICAL I	NFC	RMATION	

Information on likely route Skin contact Ingestion Eye contact	s of	exposure
Acute toxicity		
Not classified based on avail	able	information.
Product:		
Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		
Sodium 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
Skin corrosion/irritation		
Not classified based on avail	able	information.
Components:		
Sodium nitrite:		
Species Method	:	Rabbit OECD Test Guideline 404

: No skin irritation

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Serio	us eye damage/eye	irritation		
Not cl	assified based on av	ailable infor	mation.	
<u>Comp</u>	oonents:			
Sodiu	ım nitrite:			
Speci		: Rab		
Resul Metho			ation to eyes CD Test Gui	, reversing within 21 days deline 405
Respi	iratory or skin sens	itization		
Skin	sensitization			
Not cl	assified based on av	ailable infor	mation.	
Respi	iratory sensitizatior	ı		
Not cl	assified based on av	ailable infor	mation.	
Germ	cell mutagenicity			
Not cl	assified based on av	ailable infor	mation.	
<u>Comp</u>	oonents:			
Sodiu	ım nitrite:			
Genot	toxicity in vitro		t Type: Bact sult: positive	erial reverse mutation assay (AMES)
			t Type: In vi sult: positive	tro mammalian cell gene mutation test
Genot	toxicity in vivo	cyto	t Type: Man ogenetic ass ccies: Mouse	
		App		te: Intraperitoneal injection
		cyto Spe App	genetic ass cies: Rat	te: Intraperitoneal injection
	nogenicity assified based on av	ailable infor	mation	
	onents:		nation.	
Sodiu Speci	ım nitrite:	: Rat		
•	ation Route		estion	
	sure time		ears	

IARC Group 2A: Probably carcinogenic to humans

according to the OSHA Hazard Communication Standard



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		Sodium nitrite (nitrite (ingest		under conditions t	7632-00-0 hat result in endogenous nitrosation)			
OSH	A				this product present at levels greater than or equal to 0.1% is regulated carcinogens.			
NTP	NTP No ingredient of this product present at levels greater than or equal to 0.1 identified as a known or anticipated carcinogen by NTP.							
-	oductive lassified b	toxicity ased on availa	ıble	information.				
Com	ponents:							
Sodi	um nitrite	:						
Effec	ts on fertili	ity	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study			
Effec	Effects on fetal development :			Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative				
STO	STOT-single exposure							
	-	ased on availa	ble	information.				
STO	Γ-repeated	d exposure						
Not c	lassified b	ased on availa	ble	information.				
Repe	ated dose	e toxicity						
Com	ponents:							
Sodi	um nitrite	:						
Spec			:	Rat				
NOAI	EL cation Roι	ito	:	10 mg/kg Ingestion				
	sure time	ile.	:	2 y				
Asnii	ration tox	icity						
	Aspiration toxicity Not classified based on available information.							
SECTION	12. ECOL	OGICAL INFO	ORI	MATION				
Ecote	oxicity							
Com	ponents:							
	um nitrite							
		•						

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l

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				Exposure time: 96) h	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
	Toxicity to algae/aquatic plants		:	EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
	Toxicity to fish (Chronic tox- icity) Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)			NOEC (Scenedes mg/l Exposure time: 72 Method: OECD Te		
			:	NOEC (Cyprinus of Exposure time: 30 Method: OECD Te		
6			:	NOEC (Penaeid S Exposure time: 80		
7	Toxicity	to microorganisms	:	: EC50: 281 mg/l Exposure time: 48 h		
		ence and degradabili available	ty			
	Bioaccumulative potential No data available					
	-	y in soil available				
	Other adverse effects No data available					

SECTION 13. DISPOSAL CONSIDERATIONS

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

according to the OSHA Hazard Communication Standard



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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

UN 3077
Environmentally hazardous substance, solid, n.o.s. (Sodium nitrite)
9
III
CLASS 9
171
no
THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE
SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS
THE REPORTABLE 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:		
		Sodium nitrite	7632-00-0	>= 1 - < 5 %

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US State Regulations

Pennsylvania Right To Know

PFPE fluid Fluoropolymer Sodium nitrite

California Prop. 65

WARNING: This product can expose you to chemicals including Quartz, which is/are known to the State of California to cause cancer, and

Carbon monoxide, 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.

California List of Hazardous Substances

Sodium nitrite

Additional regulatory information

Sodium nitrite

7632-00-0

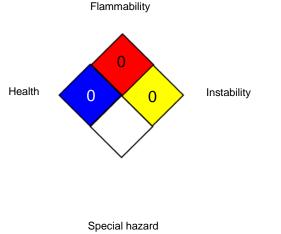
The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740

See 40 CFR § 721.4740

SECTION 16. OTHER INFORMATION

Further information





HMIS® IV:



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 the absence of a chronic hazard.

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



Trade secret Trade secret 7632-00-0

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Full to	ext of other abbrevia	tions				
ACGI	Н	:	USA. ACGIH Thr	eshold Limit Values (TLV)		
NIOS	H REL	:	USA. NIOSH Red	commended 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			
ACGI	ACGIH / C :		Ceiling limit			
NIOS				/erage concentration for up to a 10-hour 40-hour workweek		
NIOS	H REL / ST	:	: STEL - 15-minute TWA exposure that should not be exceed at any time during a workday			
NIOS	NIOSH REL / C :			be exceeded at any time.		
OSH/	A Z-1 / TWA		8-hour time weigh			
	A Z-2 / TWA		8-hour time weigh	0		

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/



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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



Ref:	130000031400		
Revision date:	09/25/2024		
Version	1.2		

TRI Supplier Notification for Chemicals of Special Concern

Product name: Corrugator Krytox[™] 227 FG

This letter is to inform you that the product listed above that we sell to you contains the following chemical(s) subject to section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). We are required to notify you of the presence of these chemicals in the product under EPCRA section 313. This law requires certain industrial facilities to report on annual emissions and other waste management of specified EPCRA section 313 chemicals and chemical categories. Chemicals of Special Concern are a subpart listing of chemicals and compounds subject to the Supplier Notification Requirements in 40 C.F.R. 372.45. The chemical(s) listed below may not be intentionally present in the product; however, it is possible that these chemical(s) may be present as an impurity and the exact concentration may vary between batches.

Chemical name	CAS No.	Value	Unit	Test Method
Hexafluoropropylene oxide dimer acid	13252-13-6	< 200	PPB	Chemours Extraction SOP*
Hexafluoropropylene oxide dimer acid	13252-13-6	< 200	PPB	Larsen**
Perfluorooctanoic acid	335-67-1	< 25	PPB	Chemours Extraction SOP*
Perfluorodecanoic acid	335-76-2	< 1	PPB	Chemours Extraction SOP*
Perfluorononanoic acid	375-95-1	< 1	PPB	Chemours Extraction SOP*
Perfluorododecanoic acid	307-55-1	< 1	PPB	Chemours Extraction SOP*
Perfluorobutanoic acid	375-22-4	< 1	PPB	Chemours Extraction SOP*
Perfluorotetradecanoic acid	376-06-7	< 1	PPB	Chemours Extraction SOP*
Perfluorohexanoic acid	307-24-4	< 1	PPB	Chemours Extraction SOP*

*Chemours SOP for Extraction of Residuals from Fluoropolymer Matrices. <u>https://www.chemours.com/en/-</u>/media/files/corporate/sop-residual-extractions-from-fluoropolymer-matrices.pdf

**Efficient "total" extraction of perfluorooctanoate from polytetrafluoroethylene fluoropolymer By: Larsen, Barbara S.; Kaiser, Mary A.; Botelho, Miguel A.; Bachmura, Stanley F.; Buxton, L. William Analyst (Cambridge, United Kingdom) (2006), 131(10), 1105-1108. https://pubs.rsc.org/en/content/articlelanding/2006/AN/B606801D

Disclaimer:

This information is given in good faith and is based on data we believe to be reliable on our current level of knowledge as of the date of this response. The information applies only to the specific material designated herein as sold by Chemours and does not apply to use in any process or in combination with any other material. Since conditions of use and applications of above-mentioned products are outside Chemours' control, Chemours makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Please note that we do not routinely analyze our products for non-intentionally added substances, unless required for regulatory compliance purposes.

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