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SECTI	ON 1. IDENTIFICATION				
Pı	roduct name	:	Krytox™ TM7		
Pi	roduct code	:	D12437371		
SI	DS-Identcode	:	130000027831		
М	anufacturer or supplier's o	deta	iils		
		:		ompany FC, LLC	
Ad	Address		1007 Market Street Wilmington, DE 19899 United States of America (USA)		
Τe	Telephone		1-844-773-CHEM	(outside the U.S. 1-302-773-1000)	
Eı	mergency telephone	:		cy: 1-866-595-1473 (outside the U.S. 1-302- sport emergency: +1-800-424-9300 (outside 27-3887)	
R	ecommended use of the c	hen	nical and restriction	ons on use	
R	ecommended use	:	Lubricant		
R	estrictions on use	:	tions involving imp internal body fluid written agreemen	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 t covering such use. For further information, ur Chemours representative.	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 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

No hazardous ingredients



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SECTION	4. FIRST AID MEASUR	RES		
lf inha	aled	:	If inhaled, remov Get medical atte	re to fresh air. ntion if symptoms occur.
In cas	se of skin contact	:		and soap as a precaution. ntion if symptoms occur.
In cas	se of eye contact	:		water as a precaution. ntion if irritation develops and persists.
lf swa	allowed	:	Get medical atte	NOT induce vomiting. ntion if symptoms occur. roughly with water.
	important symptoms ffects, both acute and ed	:	Polymer fume fe Skin contact ma Redness	rovoke the following symptoms: ver y provoke the following symptoms: y provoke the following symptoms
Prote	ction of first-aiders	:	No special preca	autions are necessary for first aid responders.
Notes	s to physician	:	Treat symptoma	tically 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 Metal oxides Nitrogen oxides (NOx)
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

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	Special for fire-	protective equipment fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.	
SEC	CTION 6	ACCIDENTAL RELE	ASE	E MEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handli equipment recomi	ng advice and personal protective nendations.
	Environmental precautions		:	Prevent further lea Retain and dispos	environment must be avoided. akage or spillage if safe to do so. e of contaminated wash water. hould be advised if significant spillages ed.
		ls and materials for ment and cleaning up	 Soak up with inert absorbent material. For large spills, provide diking or other appropr containment to keep material from spreading. It can be pumped, store recovered material in ap container. Clean up remaining materials from spill with su absorbent. Local or national regulations may apply to releat disposal of this material, as well as those material employed in the cleanup of releases. You will no determine which regulations are applicable. Sections 13 and 15 of this SDS provide informational certain local or national requirements. 		ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate og materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding

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 assessment Take care to prevent spills, waste and minimize release to the environment.
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.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.



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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	TŴA	3 ppm 2.5 mg/m ³	NIOSH REL
		С	6 ppm 5 mg/m ³	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		ST	5 ppm 15 mg/m ³	NIOSH REL
		TWA	2 ppm 5 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	OSHA Z-1
		TWA	5,000 ppm 9,000 mg/m ³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
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/m ³	OSHA Z-1

Engineering measures

:

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for

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			Particulates Not Otherwise Regulated of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m3 - respirable particles, 10 mg/m3 - inhalable particles.				
Pers	onal protective equip	nent					
Resp	Respiratory protection		: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Wh concentrations are above recommended limits or are unknown, appropriate respiratory protection should be wor Follow OSHA respirator regulations (29 CFR 1910.134) ar use NIOSH/MSHA approved respirators. Protection provid by air purifying respirators against exposure to any hazardous 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 provi adequate protection.				
Hand	protection						
R	emarks	:	Wash hands befo	ore breaks and at the end of workday.			
Eye p	protection	:	Wear the followin Safety glasses	g personal protective equipment:			
Skin	and body protection	:	Skin should be w	ashed after contact.			
Hygie	ene measures	:	located close to t When using do n	lushing systems and safety showers are he working place. ot eat, drink or smoke. ted 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	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable

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	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	:	1.9	
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	nition temperature	:	No data available	2
	Decom	position temperature	:	572 °F / 300 °C	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle	e 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	:	Hydrofluoric acid
-		Carbonyl difluoride
		Carbon dioxide
		Carbon monoxide



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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.



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SECTION	12. ECOLOGICAL IN	NFORMATION	
	oxicity		
	ata available		
	stence and degrada	bility	
No da	ata available		
Bioad	ccumulative potentia	al	
No da	ata available		
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		
SECTION	13. DISPOSAL CON		
SECTION	13. DISPUSAL CUN		
Dispo	osal methods		

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 Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.



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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 Hazards

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

PFPE fluid Fluoropolymer Additive

Trade secret Trade secret Trade secret

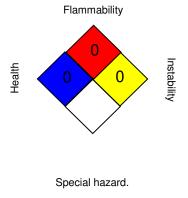
California Prop. 65

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.

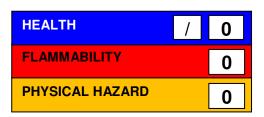
SECTION 16. OTHER INFORMATION

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.

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.



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Full tex	Full text of other abbreviations					
ACGIH		:	USA. ACGIH Thre	shold 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	:		TWA exposure that should not be exceeded		
NIOSH	REL / C	:		be exceeded at any time.		
OSHA 2	Z-1 / TWA		8-hour time weigh	•		
OSHA 2	Z-2 / TWA	:	8-hour time weigh			

AICS - Australian Inventory of Chemical Substances; 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; 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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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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.

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