

Version 6.0	Revision Date: 09/12/2022	SDS Number: 1745244-00014	Date of last issue: 04/12/2022 Date of first issue: 06/13/2017								
SECTION	SECTION 1. IDENTIFICATION										
Prod	luct name	: Krytox™ GPL	101								
SDS	-Identcode	: 130000024214	l de la constante de								
Man	ufacturer or supplier's	details									
Com	pany name of supplier	: The Chemours	s Company FC, LLC								
Addı	ess	: 1007 Market S Wilmington, DI	treet E 19801 United States of America (USA)								
Tele	phone	: 1-844-773-CH	EM (outside the U.S. 1-302-773-1000)								
Eme	rgency telephone		ency: 1-866-595-1473 (outside the U.S. 1-302- ransport emergency: +1-800-424-9300 (outside 3-527-3887)								
Rec	ommended use of the c	chemical and restri	ctions on use								
Reco	ommended use	: Lubricant									
Rest	rictions on use	tions involving internal body fl written agreem	use only. resell Chemours [™] materials in medical applica- implantation in the human body or contact with uids or tissues unless agreed to by Seller in a nent 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

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	:	Substance
Substance name	:	PFPE fluid
CAS-No.	:	Trade secret



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•	Components No hazardous ingredients								
SECTION	4. FIRST AID MEASU	RES							
lf inha	If inhaled		If inhaled, remov Get medical atte	ve to fresh air. ntion if symptoms occur.					
In cas	In case of skin contact			and soap as a precaution. Intion if symptoms occur.					
In cas	In case of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.						
lf swa	llowed	:	Get medical atte	ONOT induce vomiting. ntion if symptoms occur. roughly with water.					
	important symptoms ffects, both acute and ed	:	Polymer fume fe Skin contact may Redness Eye contact may Blurred vision Discomfort Lachrymation	y provoke the following symptoms: y provoke the following symptoms provoke the following symptoms:					
Prote	ction of first-aiders	:	No special preca	autions are necessary for first aid responders					
Notes	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
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



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					o cool unopened containers. ged containers from fire area if it is safe to do
	Special protective equipment for fire-fighters		:	Wear self-contain necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.
SECTI	ION 6.	ACCIDENTAL RELE	ASE	E MEASURES	
tiv	ve equ	al precautions, protec- ipment and emer- rocedures	:		ng advice (see section 7) and personal pro- recommendations (see section 8).
E	nviron	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or 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. and 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	:	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. Store in accordance with the particular national regulations.



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Mater	ials to avoid	:	No special restric	tions on storage with other products.
	er information on stor- tability	:	No decomposition	n 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/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/m³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	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 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.



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		Ν	1inimize workp	lace exposure concentrations.
Pers	onal protective equip	ment		
Resp	biratory protection	n c F u b c c r c v v	naintain vapor oncentrations nknown, appro follow OSHA re se NIOSH/MS y air purifying lous chemical i espirator if the xposure 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 HA approved respirators. Protection provided respirators against exposure to any hazar- is limited. Use a positive pressure air supplied re is any potential for uncontrolled release, are unknown, or any other circumstance ring respirators may not provide adequate
Hand	protection			
R	emarks	: V	Vash hands be	fore breaks and at the end of workday.
Еуе р	protection		Vear the follow Safety glasses	ring personal protective equipment:
Skin	and body protection	: 5	kin should be	washed after contact.
Hygie	ene measures	e k V	ye flushing sys ing place. Vhen using do	hemical is likely during typical use, provide stems and safety showers close to the wor- not eat, drink or smoke. ated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Color	:	colorless
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	:	Method: Pensky-Martens closed cup



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				does not flash	
	Evapor	ation rate	:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	Will not burn	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapor p	oressure	:	No data available)
	Relativ	e vapor density	:	No data available)
	Relativ	e density	:	1.86 - 1.91 (75 °F	= / 24 °C)
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partitio octanol	n coefficient: n- /water	:	No data available	
	Autoigr	nition temperature	:	No data available)
	Decom	position temperature	:	662 °F / 350 °C	
	Viscosi Visc	ty cosity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle	e size	:	Not applicable	

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



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Therm	al decomposition	: Hydrogen fluorid Carbonyl difluori Carbon dioxide Carbon monoxid	de

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation 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 1	2. ECOLOGICAL IN	NFORMATION	
Ecoto:	xicity a available		
Persis	tence and degrada	bility	
	a available		
	cumulative potentia a available	ai	
	ty in soil a available		
Other	adverse effects		
	a available		

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

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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.				
This r	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	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 SI	ate Regulations				

Pennsylvania Right To Know

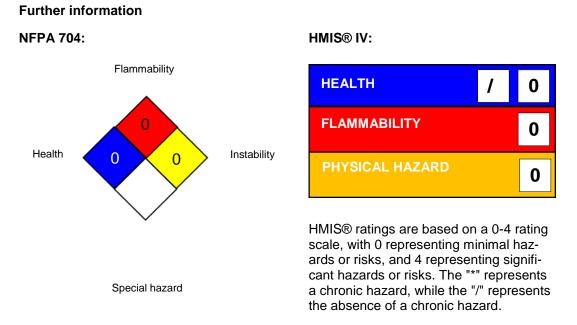
PFPE fluid

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 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.

SECTION 16. OTHER INFORMATION



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



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Full text of other abbreviations

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
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

compile the Material Safety

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-



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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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