

Versic 5.6	on	Revision Date: 09/01/2021		0S Number: 65271-00011	Date of last issue: 09/12/2020 Date of first issue: 06/21/2017				
SECT	SECTION 1. IDENTIFICATION								
P	Product	name	:	Krytox™ GPL 216					
P	Product	code	:	D10176287					
S	SDS-Id	entcode	:	130000031506					
N	/lanufa	ecturer or supplier's o	deta	ils					
C	Compa	ny name of supplier	:	The Chemours Co	ompany FC, LLC				
A	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)					
Т	Telephone			1-844-773-CHEM (outside the U.S. 1-302-773-1000)					
E	Emergency telephone		:	Medical emergency: 1-866-595-1473 (outside the U.S. 1-302 773-2000) ; Transport emergency: +1-800-424-9300 (outsid the U.S. +1-703-527-3887)					
R	Recom	mended use of the c	hem	nical and restriction	ons on use				
R	Recom	mended use	:	Lubricant					
R	Restrict	ions on use	:	tions involving imp internal body fluid written agreemen	only. ell Chemours™ materials in medical applica- blantation 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 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 : Mixture

Components

No hazardous ingredients



# Krytox™ GPL 216

Version 5.6	Revision Date: 09/01/2021		OS Number: /65271-00011	Date of last issue: 09/12/2020 Date of first issue: 06/21/2017			
SECTION	4. FIRST AID MEASUF	RES					
lf inha	aled	:	If inhaled, remove Get medical atter	e to fresh air. ntion if symptoms occur.			
In cas	In case of skin contact		Wash with water and soap as a precaution. Get medical attention 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	allowed	:	Get medical atter	NOT induce vomiting. ntion if symptoms occur. oughly with water.			
	important symptoms iffects, both acute and ed	:	Irritation Lung edema Eye contact may Blurred vision Discomfort Lachrymation	ovoke the following symptoms: provoke the following symptoms provoke the following symptoms:			
Prote	ction of first-aiders	:	No special preca	utions are necessary for first aid responders.			
Notes	s to physician	:	Treat symptomat	ically 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 Sulfur oxides
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.

# Krytox™ GPL 216



Vers 5.6	sion	Revision Date: 09/01/2021		9S Number: 65271-00011	Date of last issue: 09/12/2020 Date of first issue: 06/21/2017			
				Remove undamaç so. Evacuate area.	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	CTION 6	ACCIDENTAL RELE	ASE	EMEASURES				
	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).				
	Prevent fu Retain an Local auth			Prevent further lea Retain and dispose Local authorities s	oid release to the environment. event further leakage or spillage if safe to do so. etain and dispose of contaminated wash water. cal authorities should be advised if significant spillages nnot be contained.			
		ls and materials for ment 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 clear 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.
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.



Version	Revision Date:	SDS Number:	Date of last issue: 09/12/2020
5.6	09/01/2021	1765271-00011	Date of first issue: 06/21/2017

## 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	TWA	0.5 ppm (Fluorine)	ACGIH
		C	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/m <sup>3</sup>	OSHA Z-1
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m <sup>3</sup>	NIOSH REL
		С	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).
 Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

## Personal protective equipment

Respiratory protection

: General and local exhaust ventilation is recommended to



# Krytox™ GPL 216

Version 5.6	Revision Date: 09/01/2021		DS Number: /65271-00011	Date of last issue: 09/12/2020 Date of first issue: 06/21/2017
			concentrations ar unknown, approp Follow OSHA res use NIOSH/MSH/ by air purifying re dous chemical is respirator if there exposure levels a	posures below recommended limits. Where e above recommended limits or are riate respiratory protection should be worn. birator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any hazar- imited. Use a positive pressure air supplied is any potential for uncontrolled release, re unknown, or any other circumstance g respirators may not provide adequate
Hand	l protection			
R	emarks	:	Wash hands befo	re 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 wa	ashed after contact.
Hygie	ene measures	:	eye flushing syste king place. When using do no	emical is likely during typical use, provide oms 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	:	black
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
Flash point	:	Method: Pensky-Martens closed cup Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn

# SAFETY DATA SHEET



# Krytox™ GPL 216

Vers 5.6	ion	Revision Date: 09/01/2021		S Number: 5271-00011	Date of last issue: 09/12/2020 Date of first issue: 06/21/2017
		explosion limit / Upper bility limit	:	No data available	•
		explosion limit / Lower bility limit	:	No data available	)
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	1.89 - 1.93	
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available	)
	Decom	position temperature	:	572 °F / 300 °C	
	Viscosi <sup>.</sup> Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng 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.			
Hazardous decomposition products					

Thermal decomposition	•	:	Hydrofluoric acid
			Carbonyl difluoride
			Carbon dioxide
			Carbon monoxide

## SAFETY DATA SHEET

Revision Date:



Date of last issue: 09/12/2020

## Krytox<sup>™</sup> GPL 216

Version

5.6	09/01/2021	1765271-00011	Date of first issue: 06/21/2017
SECTION	I 11. TOXICOLOGIC	AL INFORMATION	
Skin Inges	mation on likely ro contact stion contact	utes of exposure	
Acut	e <b>toxicity</b> classified based on a	vailable information.	
	corrosion/irritation		
	<b>ous eye damage/ey</b> classified based on a		
Resp	piratory or skin sen	sitization	
Not c	sensitization classified based on a piratory sensitizatio		
Not c	classified based on a	vailable information.	
	n cell mutagenicity classified based on a	vailable information.	
		lient of this product prese	ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.
OSH		onent of this product pre s's list of regulated carcin	sent at levels greater than or equal to 0.1% is ogens.
NTP		lient of this product prese as a known or anticipate	ent at levels greater than or equal to 0.1% is d carcinogen by NTP.

SDS Number:

## **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.

## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available



Version 5.6	Revision Date: 09/01/2021	-	DS Number: 765271-00011	Date of last issue: 09/12/2020 Date of first issue: 06/21/2017			
	stence and degradab	oility					
	No data available						
	Bioaccumulative potential No data available						
Mobi	Mobility in soil						
No da	No data available						
	Other adverse effects No data available						
SECTION	13. DISPOSAL CONS	SIDE	RATIONS				
Dispo	osal methods						
Wast	e from residues	:	Dispose of in ac	ccordance with local regulations.			
Conta	aminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>					
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.						
Dom	Domestic regulation						
<b>49 CI</b> Not re	<b>FR</b> egulated as a dangerou	us go	od				
-	ial precautions for us pplicable	ser					

## **SECTION 15. REGULATORY INFORMATION**

## **CERCLA Reportable Quantity**

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

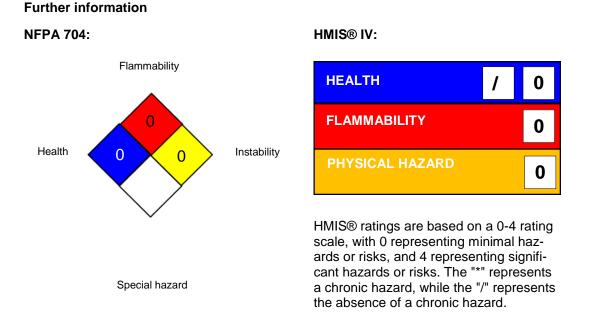
**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity** This material does not contain any components with a section 302 EHS TPQ.



Version 5.6	Revision Date: 09/01/2021		DS Number: /65271-00011	Date of last issue: 09/12/2020 Date of first issue: 06/21/2017
SARA	311/312 Hazards	:	No SARA Hazar	ds
SARA	313	:	known CAS num	es not contain any chemical components with bers that exceed the threshold (De Minimis) established by SARA Title III, Section 313.
US St	ate Regulations			
Penns	sylvania Right To Kno	ow		
	PFPE fluid			Trade secret
	Fluoropolymer			Trade secret
	Additive			Trade secret
WAR	•		•	cals 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. 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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Chemours<sup>™</sup> and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.

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

## Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits



Version 5.6	Revision Date: 09/01/2021		9S Number: 65271-00011	Date of last issue: 09/12/2020 Date of first issue: 06/21/2017			
OSHA	Z-1	:	USA. Occupationatis for Air Contami	al Exposure Limits (OSHA) - Table Z-1 Lim- nants			
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	:	, ,	be exceeded at any time.			
OSHA .	Z-1 / TWA	:	8-hour time weigh	ted average			
OSHA	Z-2 / TWA	:	8-hour time weigh	ted 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 eChem Portal search results and European Chemicals Agen-	
Data Sheet cy, http://echa.europa.eu/	

Revision Date

: 09/01/2021

## SAFETY DATA SHEET



# Krytox<sup>™</sup> GPL 216

Version	Revision Date:	SDS Number:	Date of last issue: 09/12/2020
5.6	09/01/2021	1765271-00011	Date of first issue: 06/21/2017

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