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Versio 5.3				S Number: 88595-00008	Date of last issue: 10/11/2019 Date of first issue: 06/26/2017			
SECT	ΓION 1.	IDENTIFICATION						
F	Product name		:	Krytox™ GPL 220	)			
S	SDS-Identcode		:	13000031507				
r	Manufa	cturer or supplier's c	leta	ils				
C	Compai	ny name of supplier	:					
A	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)				
٦	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 (outside the U.S. +1-703-527-3887)				
F	Recommended use of the c		hem	ical and restrictio	ons on use			
F	Recomr	mended use	:	Lubricant				
F	Restrict	ions on use	:	tions involving imp internal body fluid written agreement	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 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

Chemical name	CAS-No.	Concentration (% w/w)
Sodium nitrite	7632-00-0	>= 1 - < 5

Actual concentration is withheld as a trade secret



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SECTION	4. FIRST AID MEASUF	RES				
lf inha	If inhaled		If inhaled, remove to fresh air. Get medical attention if symptoms occur.			
In cas	In case of skin contact			and soap as a precaution. tion 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 atten	NOT induce vomiting. tion if symptoms occur. oughly with water.		
	important symptoms offects, 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 precau	tions are necessary for first aid responders.		
Notes	s to physician	:	Treat symptomati	cally 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 Nitrogen oxides (NOx) Metal 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. Remove undamaged containers from fire area if it is safe to do so.



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	Special for fire-	protective equipment fighters	:	Evacuate area. Wear self-containe necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.
SEC	TION 6	ACCIDENTAL RELE	ASI	E MEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handli equipment recomi	ng advice and personal protective nendations.
	Environ	nmental 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	:	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 overed material in appropriate container. In a materials from spill with suitable absor- egulations may apply to releases and dispo- l, as well as those materials and items em- hup 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.



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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 <sup>3</sup>	NIOSH REL
		С	6 ppm 5 mg/m³	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/m³	NIOSH REL
		TWA	2 ppm 5 mg/m <sup>3</sup>	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>	OSHA Z-1
		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
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m³	NIOSH REL
		С	200 ppm 229 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 55 mg/m <sup>3</sup>	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

:

1

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are



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		Follow OSH use NIOSH, by air purify dous chemi respirator if exposure le	ppropriate respiratory protection should be worn. IA respirator regulations (29 CFR 1910.134) and /MSHA approved respirators. Protection provided ing respirators against exposure to any hazar- cal is limited. Use a positive pressure air supplied there is any potential for uncontrolled release, vels are unknown, or any other circumstance urifying respirators may not provide adequate
Hand	d protection		
R	emarks	: Wash hand	s before breaks and at the end of workday.
Eye	protection	: Wear the fo Safety glass	llowing personal protective equipment: ses
Skin	and body protection	: Skin should	be washed after contact.
Hygid	ene measures	eye flushing king place. When using	to chemical is likely during typical use, provide g systems and safety showers close to the wor- g do not eat, drink or smoke. Iminated 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 range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper	:	No data available



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	flamma	bility limit			
		explosion limit / Lower bility limit	:	No data available	
	Vapor pressure		:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	1.89 - 1.93	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available	)
	Decom	position temperature	:	608 °F / 320 °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	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 Hvd

hermal decomposition	:	Hydrofluoric acid
-		Carbonyl difluoride
		Carbon dioxide
		Carbon monoxide



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SECTION	11. TOXICOLOGICA	LINF	ORMATION	
Skin ( Inges	<b>mation on likely rout</b> contact tion contact	es of	exposure	
	e toxicity lassified based on ava	ailable	information.	
Prod	uct:			
Acute	e oral toxicity	:	Assessment: T icity	he substance or mixture has no acute oral tox-
Acute	e inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: dust/mist
Com	ponents:			
Sodi	um nitrite:			
Acute	e oral toxicity	:	LD50 (Rat): 18	0 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 5.5 Exposure time: Test atmosphe	: 4 h
Skin	corrosion/irritation			
Not c	lassified based on ava	ailable	information.	
Com	ponents:			
Sodi	um nitrite:			
Spec Meth		:	Rabbit OECD Test Gu	iideline 404

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

Result

#### Sodium nitrite:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days
Method	:	OECD Test Guideline 405

: No skin irritation

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.



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Resp	iratory sensitizatio	on	
Not cl	assified based on a	vailable information.	
	cell mutagenicity		
		vailable information.	
Comp	oonents:		
	ım nitrite:		
Geno	toxicity in vitro	: Test Type: Ba Result: positive	cterial reverse mutation assay (AMES) e
		Test Type: In v Result: positive	vitro mammalian cell gene mutation test e
Genot	toxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
		cytogenetic as Species: Rat Application Ro	mmalian erythrocyte micronucleus test (in vi say) ute: Intraperitoneal injection
		Result: negativ	/e
Not cl		Result: negativ	/e
Not cl Comp	assified based on a ponents:	-	/e
Not cl Comp Sodiu Speci Applic	assified based on a <u>conents:</u> Im nitrite: es cation Route sure time	-	/e
Not cl Comp Sodiu Specie Applic Expos	assified based on a <u>ponents:</u> im nitrite: es cation Route sure time t Group 2/ Sodium r	Rat : Rat : Ingestion : 2 Years : negative A: Probably carcinogenic	
Not cl <u>Comp</u> Sodiu Specia Applic Expos Resul	assified based on a <u>conents:</u> <b>um nitrite:</b> es cation Route sure time t Group 2/ Sodium r (nitrite (ir No comp	A: Probably carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic https://www.carcinogenic	to humans 7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1%
Not cl Comp Sodiu Speci Applic Expos Resul IARC	assified based on a <u>conents:</u> <b>im nitrite:</b> es cation Route sure time t Group 2/ Sodium r (nitrite (ir No comp on OSH/ No ingree	Rat Ingestion Z Years negative robably carcinogenic nitrite ngested) under condition onent of this product pre X's list of regulated carcin	to humans 7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% nogens. sent at levels greater than or equal to 0.1% is
Not cl Comp Sodiu Specia Applic Expos Resul IARC OSHA NTP Repro	assified based on a <u>conents:</u> <b>Im nitrite:</b> es cation Route sure time t Group 2/ Sodium r (nitrite (in No comp on OSH/ No ingree identified	available information.	to humans 7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% nogens. sent at levels greater than or equal to 0.1% is
Not cl Comp Sodiu Speci Applic Expos Resul IARC OSHA NTP Repro Not cl	assified based on a <u>conents:</u> <b>Im nitrite:</b> es cation Route sure time t Group 2/ Sodium r (nitrite (in No comp on OSH/ No ingree identified	A: Probably carcinogenic agested) under condition onent of this product pre- as a known or anticipat	to humans 7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% nogens. sent at levels greater than or equal to 0.1% is
Not cl Comp Sodiu Specia Applic Expos Resul IARC OSHA NTP Repro Not cl Comp Sodiu	assified based on a ponents: im nitrite: es cation Route sure time t Group 2/ Sodium r (nitrite (ir No comp on OSH/ No ingred identified poductive toxicity assified based on a	A: Probably carcinogenic agested) under condition onent of this product pre- as a known or anticipat wailable information.	to humans 7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% nogens. sent at levels greater than or equal to 0.1% is



ersion 3	Revision Date: 04/22/2020		OS Number: 88595-00008	Date of last issue: 10/11/2019 Date of first issue: 06/26/2017
			Species: Mouse Application Rout Result: negative	e: Ingestion
Effect	s on fetal development	:	Test Type: Embr Species: Rat Application Rout Result: negative	yo-fetal development e: Ingestion
	-single exposure assified based on availa	ble	information.	
STO	-repeated exposure			
Not c	assified based on availa	ble	information.	
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
Sodiu	ım nitrite:			
Speci		:	Rat	
NOA		:	10 mg/kg	
	cation Route sure time	÷	Ingestion 2 y	
	12. ECOLOGICAL INFO	JKI	ATION	
Com	oxicity			
Com				
	oxicity			
Sodiu	oxicity oonents:		LC50 (Oncorhyn Exposure time: 9	chus mykiss (rainbow trout)): 0.54 mg/l 16 h
<b>Sodiu</b> Toxic Toxic	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other	:	Exposure time: 9 EC50 (Daphnia r	16 h nagna (Water flea)): 15.4 mg/l
<b>Sodiu</b> Toxic Toxic	oxicity oonents: um nitrite: ity to fish	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4	16 h nagna (Water flea)): 15.4 mg/l
<b>Sodiu</b> Toxic Toxic aquat	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4 Method: OECD 1	nagna (Water flea)): 15.4 mg/l 8 h Fest Guideline 202
Sodiu Toxic Toxic aquat	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4 Method: OECD 7 EC50 (Scenedes	96 h magna (Water flea)): 15.4 mg/l -8 h
<b>Sodiu</b> Toxic Toxic aquat	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4 Method: OECD 7 EC50 (Scenedes 100 mg/l Exposure time: 7	96 h nagna (Water flea)): 15.4 mg/l -8 h Fest Guideline 202 smus capricornutum (fresh water algae)): > '2 h
Sodiu Toxic Toxic aquat	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4 Method: OECD 7 EC50 (Scenedes 100 mg/l Exposure time: 7	96 h nagna (Water flea)): 15.4 mg/l -8 h Fest Guideline 202 smus capricornutum (fresh water algae)): >
Sodiu Toxic Toxic aquat	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4 Method: OECD 7 EC50 (Scenedes 100 mg/l Exposure time: 7 Method: OECD 7	nagna (Water flea)): 15.4 mg/l 8 h Fest Guideline 202 smus capricornutum (fresh water algae)): > 2 h Fest Guideline 201
Sodiu Toxic Toxic aquat Toxic	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4 Method: OECD T EC50 (Scenedes 100 mg/l Exposure time: 7 Method: OECD T NOEC (Scenede mg/l	nagna (Water flea)): 15.4 mg/l 8 h Test Guideline 202 smus capricornutum (fresh water algae)): > 2 h Test Guideline 201 smus capricornutum (fresh water algae)): 1
Sodiu Toxic Toxic aquat	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4 Method: OECD T EC50 (Scenedes 100 mg/l Exposure time: 7 Method: OECD T NOEC (Scenede mg/l Exposure time: 7	nagna (Water flea)): 15.4 mg/l 8 h Test Guideline 202 smus capricornutum (fresh water algae)): > 2 h Test Guideline 201 smus capricornutum (fresh water algae)): 1 2 h
Sodiu Toxic Toxic aquat	<b>oxicity</b> <b>conents:</b> <b>um nitrite:</b> ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 9 EC50 (Daphnia r Exposure time: 4 Method: OECD T EC50 (Scenedes 100 mg/l Exposure time: 7 Method: OECD T NOEC (Scenede mg/l Exposure time: 7	nagna (Water flea)): 15.4 mg/l 8 h Test Guideline 202 smus capricornutum (fresh water algae)): > 2 h Test Guideline 201 smus capricornutum (fresh water algae)): 1



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			Method: OECD T	est Guideline 210
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Penaeid S Exposure time: 80	Shrimp): 9.86 mg/l ) d
Tox	city to microorganisms	:	EC50: 281 mg/l Exposure time: 48	3 h
	sistence and degradabili data available	ity		
	accumulative potential data available			
Mot	oility in soil			
No d	lata available			
Oth	er adverse effects			
No d	lata available			

### SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal 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	
UN/ID/NA number	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Sodium nitrite)
Class	: 9
Packing group	: III
Labels	: CLASS 9



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ERG ( Marine Rema	e pollutant	SIZES WHER	NFORMATION ONLY APPLIES TO PACKAGE E THE HAZARDOUS SUBSTANCE MEETS TABLE 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

### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **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 Hazards	S	
SARA 313	:	The following components are subject to reporting levels es tablished by SARA Title III, Section 313:		reporting levels es-
		Sodium nitrite	7632-00-0	>= 1 - < 5 %

#### US State Regulations

#### Pennsylvania Right To Know

PFPE fluid	Trade secret
Fluoropolymer	Trade secret
Sodium nitrite	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 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.

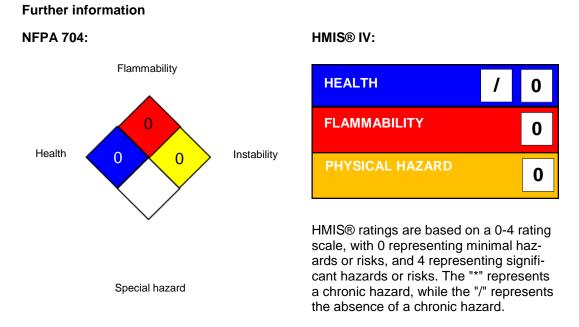
California List of Hazardous Subs	tances	
Sodium nitrite		7632-00-0
Additional regulatory information		
Sodium nitrite	7632-00-0	



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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

### SECTION 16. OTHER INFORMATION



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

### Full text of other abbreviations

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits 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

## SAFETY DATA SHEET



## Krytox<sup>™</sup> GPL 220

Version	Revision Date:	SDS Number:	Date of last issue: 10/11/2019
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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	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, 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.

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