

# Krytox<sup>™</sup> GPL 295

Versio 6.2	on	Revision Date: 10/10/2020		0S Number: 88842-00010	Date of last issue: 03/16/2020 Date of first issue: 06/27/2017				
SECT	<b>FION</b> 1.	IDENTIFICATION							
F	Product name		:	Krytox™ GPL 295					
F	Product	code	:	D12429661					
S	SDS-Id	entcode	:	130000031519					
N	Manufa	ecturer or supplier's o	deta	ills					
C	Compa	ny name of supplier	:						
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 (outside the U.S. +1-703-527-3887)					
F	Recommended use of the o		hemical and restriction		ons on use				
F	Recommended use		:	Lubricant					
F	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

|--|



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	Im nitrite al concentration is withhe	eld a	7632-00-0 >= 1 - < 5							
SECTION	SECTION 4. FIRST AID MEASURES									
lf inha	If inhaled		-	If inhaled, remove to fresh air. Get medical attention if symptoms occur.						
In cas	se of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.							
In cas	se of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.							
lf swa	allowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.							
	important symptoms affects, both acute and ed	:	Inhalation may pu Irritation Lung edema Eye contact may Blurred vision Discomfort Lachrymation Skin contact may Irritation Redness	provoke the follo						
Prote	ction of first-aiders	:	No special preca	utions are neces	sary for first aid responders.					
Notes	s to physician	:	Treat symptomat	ically and suppo	rtively.					

# 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 Nitrogen oxides (NOx)



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	Specific ods	extinguishing meth-	:	cumstances and the Use water spray to	measures that are appropriate to local cir- he surrounding environment. cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:	Wear self-containe necessary. Use personal prote	ed breathing apparatus for firefighting if ective equipment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material. For large spills, provide diking or other appropriate contain- ment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dispo- sal of this material, as well as those materials and items em- ployed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national 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.



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Further information on storage stability

Further information on stor- : No decomposition 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
Hydrofluoric acid	7664-39-3	TWA	3 ppm 2.5 mg/m <sup>3</sup>	NIOSH REL
		С	6 ppm 5 mg/m <sup>3</sup>	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 <sup>3</sup>	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/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.



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Per	sonal protective equipn	nent	:				
Res	spiratory protection	:	maintain vapor ex concentrations ar unknown, approp Follow OSHA res use NIOSH/MSH/ by air purifying re dous chemical is respirator if there exposure levels a	neral and local exhaust ventilation is recommended to intain vapor exposures below recommended limits. Where incentrations are above recommended limits or are known, appropriate respiratory protection should be worn. low OSHA respirator regulations (29 CFR 1910.134) and NIOSH/MSHA approved respirators. Protection provided air purifying respirators against exposure to any hazar- us chemical is limited. Use a positive pressure air supplied pirator if there is any potential for uncontrolled release, posure levels are unknown, or any other circumstance ere air purifying respirators may not provide adequate tection.			
Har	nd protection						
	Remarks	:	Wash hands befo	re breaks and at the end of workday.			
Eye	e protection	:	Wear the followin Safety glasses	g personal protective equipment:			
Ski	n and body protection	:	Skin should be wa	ashed after contact.			
Ηγς	jiene measures	:	eye flushing syste king place. When using do no	emical is likely during typical use, provide ems 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	:	yellow
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
Evaporation rate	:	Not applicable



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	Flamma	ability (solid, gas)	:	Will not burn	
		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	:	1.9	
	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	mixture is not classified as oxidizing.
	Particle	size	:	No data available	)

## SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability	:	Not classified as a reactivity hazard. Stable under normal conditions.		
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. TOXICOLOGICA		ORMATION		
Skin o Inges	<b>nation on likely rou</b> t contact tion ontact	tes of	exposure		
Acute	e toxicity				
Not cl	assified based on ava	ailable	information.		
Produ	uct:				
Acute	oral toxicity	:	Assessment: TI icity	ne substance or mixture has no acute oral to:	
Acute	inhalation toxicity	:	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
Com	oonents:				
Sodiu	um 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		
	corrosion/irritation	- !! -  -   -			
	lassified based on ava conents:	allable	information.		
	um nitrite:				
Speci Metho Resul	es od	:	: Rabbit : OECD Test Guideline 404 : No skin irritation		
Serio	us eye damage/eye	irritati	on		
Not cl	assified based on ava	ailable	information.		
Com	<u>oonents:</u>				
Sodiu	um nitrite:				
Speci Resul Metho	lt	:	Rabbit Irritation to eyes	s, reversing within 21 days	

### Respiratory or skin sensitization

## Skin sensitization

Method

Not classified based on available information.

: OECD Test Guideline 405



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-	<b>iratory sensitizatio</b> assified based on a	<b>n</b> vailable information.	
	cell mutagenicity	vailable information.	
	oonents:		
Sodiu	ım nitrite:		
Geno	toxicity in vitro	: Test Type: Bao Result: positive	cterial reverse mutation assay (AMES) e
		Test Type: In v Result: positive	vitro mammalian cell gene mutation test
Geno	toxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
		cytogenetic as Species: Rat	ute: Intraperitoneal injection
	<b>nogenicity</b> assified based on a	vailable information.	
<u>Comp</u>	oonents:		
	um nitrite:		
	es cation Route	: Rat	
Resul	sure time	: Ingestion : 2 Years : negative	
	sure time t Group 2A Sodium n	: 2 Years : negative : Probably carcinogenic itrite	to humans 7632-00-0 s that result in endogenous nitrosation)
Resul	sure time t Group 2A Sodium n (nitrite (in A No compo	: 2 Years : negative : Probably carcinogenic itrite gested) under condition	7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is
Resul	sure time t Group 2A Sodium n (nitrite (in A No compo on OSHA No ingrec	: 2 Years : negative :: Probably carcinogenic itrite gested) under condition onent of this product pre 's list of regulated carcir	7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is nogens. sent at levels greater than or equal to 0.1% is
Resul IARC OSHA NTP Repro	sure time t Group 2A Sodium n (nitrite (in No compo on OSHA No ingrec identified	: 2 Years : negative : Probably carcinogenic itrite gested) under condition onent of this product pre 's list of regulated carcir lient of this product pres as a known or anticipate	7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is nogens. sent at levels greater than or equal to 0.1% is
Resul IARC OSHA NTP Repro	sure time t Group 2A Sodium n (nitrite (in A No compo on OSHA No ingred identified Dductive toxicity assified based on a	: 2 Years : negative : Probably carcinogenic itrite gested) under condition onent of this product pre 's list of regulated carcir lient of this product pres	7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is nogens. sent at levels greater than or equal to 0.1% is
Resul IARC OSHA NTP Repro Not cl <u>Comp</u>	sure time t Group 2A Sodium n (nitrite (in No compo on OSHA No ingrec identified	: 2 Years : negative : Probably carcinogenic itrite gested) under condition onent of this product pre 's list of regulated carcir lient of this product pres as a known or anticipate	7632-00-0 s that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is nogens. sent at levels greater than or equal to 0.1% is



sion	Revision Date: 10/10/2020		S Number: 88842-00010	Date of last issue: 03/16/2020 Date of first issue: 06/27/2017
			Species: Mouse Application Rou Result: negative	te: Ingestion
Effects	s on fetal development	:	Test Type: Emb Species: Rat Application Rou Result: negative	
	<b>-single exposure</b> assified based on availa	ble	information.	
	-repeated exposure assified based on availa	ble	information.	
Repea	ated dose toxicity			
Comp	onents:			
Sodiu	m nitrite:			
Specie		:	Rat	
NOAE		:	10 mg/kg	
Applic	ation Route	•	Ingestion	
<b>Aspir</b> a Not cla	ation toxicity assified based on availa 12. ECOLOGICAL INFO			
<b>Aspir</b> a Not cla	ation toxicity assified based on availa 12. ECOLOGICAL INFO		information.	
Aspira Not cla CTION Ecoto	ation toxicity assified based on availa 12. ECOLOGICAL INFO		information.	
Aspira Not cla CTION Ecoto <u>Comp</u>	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity		information.	
Aspira Not cla CTION Ecoto <u>Comp</u> Sodiu	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity ponents:	DRM	information.	nchus mykiss (rainbow trout)): 0.54 mg/l 96 h
Aspira Not cla CTION Ecoto Comp Sodiu Toxicit	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity ponents: m nitrite: ty to fish ty to daphnia and other	DRM	information. <b>IATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia	96 h magna (Water flea)): 15.4 mg/l
Aspira Not cla CTION Ecoto Comp Sodiu Toxicit	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity ponents: m nitrite: ty to fish	DRN :	information. <b>IATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time:	96 h magna (Water flea)): 15.4 mg/l 48 h
Aspira Not cla CTION Ecoto Comp Sodiu Toxicit	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity ponents: m nitrite: ty to fish ty to daphnia and other	DRN :	information. <b>IATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time:	96 h magna (Water flea)): 15.4 mg/l
Aspira Not cla CTION Ecoto Comp Sodiu Toxici aquati	ation toxicity assified based on availa 12. ECOLOGICAL INFO exicity conents: m nitrite: ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	DRN :	information. <b>MATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: Method: OECD EC50 (Scenede	96 h magna (Water flea)): 15.4 mg/l 48 h
Aspira Not cla CTION Ecoto Comp Sodiu Toxicit aquati	ation toxicity assified based on availa 12. ECOLOGICAL INFO exicity conents: m nitrite: ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	DRN :	information. <b>IATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: Method: OECD EC50 (Scenede 100 mg/l	96 h magna (Water flea)): 15.4 mg/l 48 h Test Guideline 202 smus capricornutum (fresh water algae)): >
Aspira Not cla CTION Ecoto Comp Sodiu Toxici aquati	ation toxicity assified based on availa 12. ECOLOGICAL INFO exicity conents: m nitrite: ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	DRN :	information. <b>ATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: Method: OECD EC50 (Scenede 100 mg/l Exposure time:	96 h magna (Water flea)): 15.4 mg/l 48 h Test Guideline 202 smus capricornutum (fresh water algae)): >
Aspira Not cla CTION Ecoto Comp Sodiu Toxici aquati	ation toxicity assified based on availa 12. ECOLOGICAL INFO exicity conents: m nitrite: ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	DRN :	information. <b>ATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: Method: OECD EC50 (Scenede 100 mg/l Exposure time: Method: OECD	96 h magna (Water flea)): 15.4 mg/l 48 h Test Guideline 202 smus capricornutum (fresh water algae)): > 72 h Test Guideline 201
Aspira Not cla CTION Ecoto Comp Sodiu Toxici aquati	ation toxicity assified based on availa 12. ECOLOGICAL INFO exicity conents: m nitrite: ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	DRN :	information. <b>IATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: Method: OECD EC50 (Scenede 100 mg/l Exposure time: Method: OECD NOEC (Scenede	96 h magna (Water flea)): 15.4 mg/l 48 h Test Guideline 202 smus capricornutum (fresh water algae)): > 72 h Test Guideline 201
Aspira Not cla CTION Ecoto Comp Sodiu Toxici aquati	ation toxicity assified based on availa 12. ECOLOGICAL INFO exicity conents: m nitrite: ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	DRN :	information. <b>IATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: Method: OECD EC50 (Scenede 100 mg/l Exposure time: Method: OECD NOEC (Scened mg/l Exposure time:	96 h magna (Water flea)): 15.4 mg/l 48 h Test Guideline 202 smus capricornutum (fresh water algae)): > 72 h Test Guideline 201 esmus capricornutum (fresh water algae)): 1 72 h
Aspira Not cla CTION Ecoto Comp Sodiu Toxici aquati	ation toxicity assified based on availa 12. ECOLOGICAL INFO exicity conents: m nitrite: ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic	DRN :	information. <b>IATION</b> LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: Method: OECD EC50 (Scenede 100 mg/l Exposure time: Method: OECD NOEC (Scened mg/l Exposure time:	96 h magna (Water flea)): 15.4 mg/l 48 h Test Guideline 202 smus capricornutum (fresh water algae)): > 72 h Test Guideline 201 esmus 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
Тохі	city to microorganisms	:	EC50: 281 mg/l Exposure time: 44	3 h
	sistence and degradabili lata available	ity		
	accumulative potential lata available			
	<b>ility in soil</b> lata available			
	er adverse effects 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 ABLE 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 SAF	RA Hazard	S		
SARA 313		The following components are subject to reporting levels es tablished by SARA Title III, Section 313:			
	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 Substances**

Molvbdenum thiocarbamate Sodium nitrite

#### Additional regulatory information

Sodium nitrite

7632-00-0

Trade secret 7632-00-0

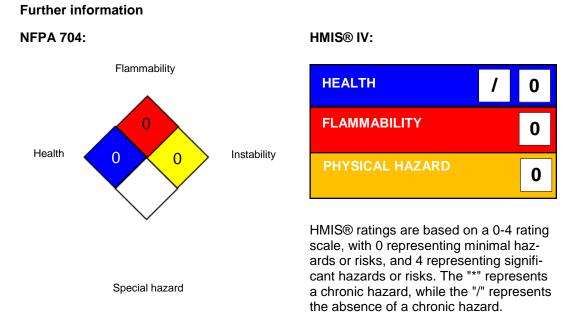


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The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740

## SECTION 16. OTHER INFORMATION



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## 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



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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; 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	:	Internal technical data, data from raw material SDSs, OECD 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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