

Krytox[™] GPL 297

Versi 6.2	on	Revision Date: 10/01/2020		0S Number: 88850-00010	Date of last issue: 03/10/2020 Date of first issue: 06/27/2017					
SECT	SECTION 1. IDENTIFICATION									
I	Product	t name	:	Krytox™ GPL 297	7					
I	Product	t code	:	D12429929						
:	SDS-Id	entcode	:	130000031521						
I	Manufa	acturer or supplier's o	deta	iils						
(Compa	ny name of supplier	:							
,	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)						
-	Telephone		:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)						
I	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)						
I	Recom	mended use of the c	hen	nical and restriction	ons on use					
I	Recommended use		:	Lubricant						
I	Restrict	tions 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 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

	Chemical name	CAS-No.	Concentration (% w/w)
12			



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	Sodium nitrite Actual concentration is withhe		7632-00-0 as a trade secret	>= 1 - < 5					
SECTION	SECTION 4. FIRST AID MEASURES								
lf inha	aled	:	If inhaled, removed of the second sec	ve to fresh air. ention if symptoms occur.					
In cas	se of skin contact	:	Wash with water Get medical atte	r and soap as a precaution. ention if symptoms occur.					
In cas	se of eye contact	:		water as a precaution. ention if irritation develops and persists.					
lf swa	allowed	:	Get medical atte	D NOT induce vomiting. ention if symptoms occur. proughly with water.					
	important symptoms effects, both acute and ed	:	Irritation Lung edema Eye contact may Blurred vision Discomfort Lachrymation	provoke the following symptoms: 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 Sulfur oxides Nitrogen oxides (NOx)



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	Specific ods	extinguishing meth-	:	cumstances and t Use water spray to	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-f	protective equipment ighters	:	Wear self-containe necessary. Use personal prot	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 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/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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Pers	sonal protective equipr	nent	:			
Res	piratory 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	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazar- dous 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 provide adequate protection.		
Han	d protection					
F	Remarks	:	Wash hands befo	re breaks and at the end of workday.		
Eye	protection	:	Wear the followin Safety glasses	g personal protective equipment:		
Skin	and body protection	:	Skin should be wa	ashed after contact.		
Hyg	ene 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 [.] 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	:	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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ECTION	11. TOXICOLOGICA	LINF	ORMATION	
Skin (Inges	mation on likely rout contact stion contact	tes of	exposure	
Acut	e toxicity			
Not c	lassified based on ava	ailable	information.	
<u>Prod</u>	uct:			
Acute	e oral toxicity	:	Assessment: T icity	he substance or mixture has no acute oral to
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): 180) mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 5.5 Exposure time: Test atmosphe	4 h
-	corrosion/irritation			
	lassified based on ava	ailable	information.	
	ponents:			
	um nitrite:		5	
Spec Meth		:	Rabbit OECD Test Gu	ideline 404
Resu		:	No skin irritation	
	ous eye damage/eye lassified based on ava			
Com	ponents:			
Sodi	um nitrite:			
-				

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

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.



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Respi	ratory sensitizatio	on	
Not cla	assified based on a	available information.	
	cell mutagenicity		
		available information.	
Comp	onents:		
	m nitrite:	T (T D	
Genot	oxicity in vitro	: Test Type: Ba Result: positiv	cterial reverse mutation assay (AMES) e
		Test Type: In Result: positiv	vitro mammalian cell gene mutation test e
Genot	oxicity in vivo	cytogenetic as Species: Mou	se function set injection
		cytogenetic as Species: Rat	
		Application Ro Result: negati	oute: Intraperitoneal injection ve
Not cla			
Not cla <u>Comp</u>	assified based on a ponents:	Result: negati	
Not cla <u>Comp</u> Sodiu Specie Applic	assified based on a ponents: m nitrite: es ation Route sure time	Result: negati	
Not cla <u>Comp</u> Sodiu Specie Applic Expos	assified based on a ponents: m nitrite: es ation Route sure time t Group 2/ Sodium	Result: negati available information. : Rat : Ingestion : 2 Years : negative A: Probably carcinogenio nitrite	ve
Not cla <u>Comp</u> Sodiu Specie Applic Expos Result	assified based on a ponents: m nitrite: es ation Route sure time t Group 2/ Sodium (nitrite (in No comp	Result: negati available information. : Rat : Ingestion : 2 Years : negative A: Probably carcinogenion nitrite ngested) under condition	ve c to humans 7632-00-0 ns that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% i
Not cla <u>Comp</u> Sodiu Specie Applic Expos Result IARC	assified based on a ponents: m nitrite: es ation Route sure time t Group 2/ Sodium to (nitrite (in No comp on OSH/ No ingre	Result: negati available information. : Rat : Ingestion : 2 Years : negative A: Probably carcinogenion nitrite ngested) under condition ponent of this product pr A's list of regulated carci	ve to humans 7632-00-0 ns that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is inogens. sent at levels greater than or equal to 0.1% is
Not cla <u>Comp</u> Sodiu Specie Applic Expos Result IARC OSHA NTP Repro	assified based on a ponents: m nitrite: es ation Route ure time t Group 2/ Sodium to (nitrite (in No comp on OSH/ No ingre identified	Result: negati available information. : Rat : Ingestion : 2 Years : negative A: Probably carcinogenion intrite ngested) under condition ponent of this product pre A's list of regulated carci	ve to humans 7632-00-0 ns that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is inogens. sent at levels greater than or equal to 0.1% is
Not cla <u>Comp</u> Sodiu Specia Applic Expos Result IARC OSHA NTP Repro Not cla	assified based on a ponents: m nitrite: es ation Route ure time t Group 2/ Sodium to (nitrite (in No comp on OSH/ No ingre identified	Result: negati available information. : Rat : Ingestion : 2 Years : negative A: Probably carcinogenia nitrite ngested) under condition ponent of this product pre A's list of regulated carci dient of this product pre a s a known or anticipa	ve to humans 7632-00-0 ns that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is inogens. sent at levels greater than or equal to 0.1% is
Not cla <u>Comp</u> Sodiu Specie Applic Expos Result IARC OSHA NTP Repro Not cla <u>Comp</u>	assified based on a ponents: m nitrite: es ation Route sure time t Group 2/ Sodium to (nitrite (in No comp on OSH/ No ingre identified based on a	Result: negati available information. : Rat : Ingestion : 2 Years : negative A: Probably carcinogenia nitrite ngested) under condition ponent of this product pre A's list of regulated carci dient of this product pre a s a known or anticipa	ve to humans 7632-00-0 ns that result in endogenous nitrosation) esent at levels greater than or equal to 0.1% is inogens. sent at levels greater than or equal to 0.1% is



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				Species: Mouse Application Route Result: negative	: Ingestion			
	Effects on fetal development			Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative				
		single exposure						
	Not cla	ssified based on availa	ble	information.				
		r epeated exposure ssified based on availa	ble	information.				
	Repeat	ed dose toxicity						
	Compo	onents:						
:	Sodiur	n nitrite:						
	Specie		:	Rat				
	NOAEL	- tion Route	:	10 mg/kg Ingestion				
		ire time	:	2 y				
	Asnira	tion toxicity						
	•	ssified based on availa	ble	information.				
SEC		2. ECOLOGICAL INFO						
5LC			J 111					
	Ecotox	licity						
	Compo	onents:						
:	Sodiur	n nitrite:						
	Toxicity	<i>i</i> to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.54 mg/l } h			
		v to daphnia and other invertebrates	:	Exposure time: 48				
				Method: OECD To	est Guideline 202			
	Toxicity plants	/ to algae/aquatic	:	EC50 (Scenedesr 100 mg/l Exposure time: 72 Method: OECD Te				
				NOEC (Scenedes	mus capricornutum (fresh water algae)): 100			



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				Method: OECD T	est Guideline 210
		y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Penaeid S Exposure time: 80	Shrimp): 9.86 mg/l) d
	Toxicity	y to microorganisms	:	EC50: 281 mg/l Exposure time: 44	3 h
		tence and degradabil i a available	ity		
		cumulative potential a available			
		t y in soil a available			
	Other	a available adverse effects a 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 (Marin 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

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 Hazar	ds		
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

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

Molybdenum thiocarbamate Sodium nitrite

Additional regulatory information

Sodium nitrite

7632-00-0

Trade secret 7632-00-0

7632-00-0

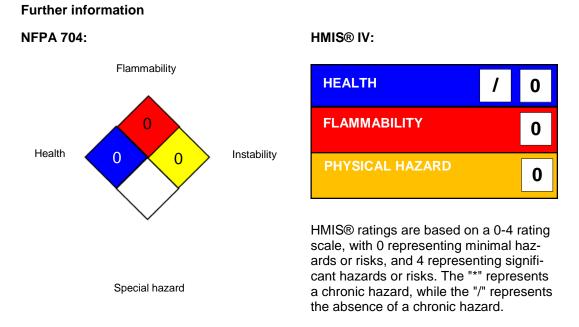


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The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740

SECTION 16. OTHER INFORMATION



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Chemours [™] 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 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

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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.

US / Z8