

Krytox[™] XHT-EP 298

Version 6.0	Revision Date: 04/20/2020	SDS Number: 1788901-00008	Date of last issue: 10/01/2019 Date of first issue: 06/27/2017					
SECTIO	N 1. IDENTIFICATION							
Pro	duct name	: Krytox™ XHT	: Krytox™ XHT-EP 298					
SD	S-Identcode	: 13000003159	13000031595					
Ма	nufacturer or supplier's	details						
Co	npany name of supplier	: The Chemour	s Company FC, LLC					
Ado	Iress		1007 Market Street Wilmington, DE 19801 United States of America (USA)					
Tel	ephone	: 1-844-773-CH	1-844-773-CHEM (outside the U.S. 1-302-773-1000)					
Em	ergency telephone	773-2000);	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)					
Re	commended use of the	chemical and restri	ictions on use					
Red	commended use	: Lubricant						
Re	strictions on use	Do not use or tions involving internal body f written agreen	For industrial use only. Do not use or resell Chemours™ materials in medical applica tions involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information please contact your 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 7	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		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	If swallowed		nedical atte	D NOT induce vomiting. ention if symptoms occur. proughly with water.	
	important symptoms ffects, both acute and ed	Irritat Lung Eye o Blurr Disco Lach	ion edema contact may ed vision omfort rymation contact ma ion	provoke the following symptoms: y provoke the following symptoms y provoke the following symptoms:	
Prote	ction of first-aiders	: No s	pecial preca	autions are necessary for first aid responders.	
Notes	Notes to physician		t 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)
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



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			so. Evacuate area.			
	Special protective equipment for fire-fighters		Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.			
SECTION	6. ACCIDENTAL RELE	ASE	EMEASURES			
tive e	Personal precautions, protec- tive equipment and emer- gency procedures		Follow safe handl equipment recom	ing advice and personal protective mendations.		
Envir	Environmental precautions		Prevent further lea Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ed.		
Methods and materials for containment and cleaning up		:	For large spills, pr ment to keep mat pumped, store red Clean up remainin bent. Local or national n sal of this materia ployed in the clea which regulations Sections 13 and 1	t absorbent material. rovide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dispo- I, 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.



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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	TWA	3 ppm 2.5 mg/m ³	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/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/m ³	OSHA Z-1
Engineering measures	10). Ensure adeo	quate ventilation	dous compounds (see , especially in confined e concentrations.	

Personal protective equipment

:

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 OSHA res use NIOSH/MSH, by air purifying re dous chemical is respirator if there exposure levels a	riate respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any hazar- limited. 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	protection			
Re	emarks	:	Wash hands befo	re breaks and at the end of workday.
Еуе р	Eye protection		Wear the followin Safety glasses	g personal protective equipment:
Skin	and body protection	:	Skin should be wa	ashed after contact.
Hygiene 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
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper	:	No data available



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fla	mmability limit			
	Lower explosion limit / Lower flammability limit		No data available	
Va	apor pressure	:	Not applicable	
Re	elative vapor density	:	Not applicable	
Re	elative density	:	1.9	
So	blubility(ies) Water solubility	:	insoluble	
	artition coefficient: n- tanol/water	:	Not applicable	
Αι	Autoignition temperature		No data available)
De	ecomposition temperature	:	608 °F / 320 °C	
Vi	scosity Viscosity, kinematic	:	Not applicable	
E>	plosive properties	:	Not explosive	
O	kidizing properties	:	The substance o	r mixture is not classified as oxidizing.
Pa	article 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

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



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Informat Skin cont Ingestion Eye cont Acute to Not class <u>Product</u> Acute ora	act xicity sified based on ava al toxicity nalation toxicity	es of (xposure nformation. Assessment: The substance or miz icity Acute toxicity estimate: > 200 mg/l	xture has no acute oral tox-
Skin cont Ingestion Eye cont Acute to Not class <u>Product</u> Acute ora Acute inh	tact act xicity sified based on ava al toxicity nalation toxicity	ilable :	nformation. Assessment: The substance or mi icity Acute toxicity estimate: > 200 mg/l	xture has no acute oral tox-
Ingestion Eye cont Acute to Not class <u>Product</u> Acute or Acute inh	act xicity sified based on ava al toxicity nalation toxicity	:	Assessment: The substance or mix icity Acute toxicity estimate: > 200 mg/l	xture has no acute oral tox-
Eye cont Acute to Not class <u>Product</u> Acute or Acute inh	act xicity sified based on ava al toxicity nalation toxicity	:	Assessment: The substance or mix icity Acute toxicity estimate: > 200 mg/l	xture has no acute oral tox-
Not class <u>Product</u> Acute or Acute inh <u>Compon</u>	ified based on ava	:	Assessment: The substance or mix icity Acute toxicity estimate: > 200 mg/l	xture has no acute oral tox-
Not class <u>Product</u> Acute or Acute inh <u>Compon</u>	ified based on ava	:	Assessment: The substance or mix icity Acute toxicity estimate: > 200 mg/l	xture has no acute oral tox-
Acute ora Acute inh	al toxicity nalation toxicity	:	icity Acute toxicity estimate: > 200 mg/l	xture has no acute oral tox-
Acute ora Acute inh	al toxicity nalation toxicity	:	icity Acute toxicity estimate: > 200 mg/l	xture has no acute oral tox-
<u>Compon</u>		:		
<u>Compon</u>				I
	ents:		Exposure time: 4 h	
	ents:		Test atmosphere: dust/mist Method: Calculation method	
	ents:		Method. Calculation method	
Sodium				
	nitrite:			
Acute ora	al toxicity	:	LD50 (Rat): 180 mg/kg	
Acute inh	alation toxicity	:	LC50 (Rat): 5.5 mg/l	
		•	Exposure time: 4 h	
			Test atmosphere: dust/mist	
II Skin cor	rosion/irritation			
	ified based on ava	ilahle	nformation	
<u>Compon</u>				
Sodium	nitrite:			
Species Method		:	Rabbit OECD Test Guideline 404	
Result		:	No skin irritation	
	eye damage/eye i			
	ified based on ava	ilable	nformation.	
<u>Compon</u>	ents:			
Sodium	nitrite:			
Species		:	Rabbit	
Result Method		:	Irritation to eyes, reversing within 2 OECD Test Guideline 405	21 Uays
Respirat	ory or skin sensit	tizatio	1	
Skin ser	sitization			
	sified based on ava	ilable	nformation.	



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Not cla Germ o Not cla <u>Compo</u> Sodiun	cell mutagenicity	n vailable information. vailable information.	
Not cla <u>Compo</u> Sodiur	ssified based on av onents:	vailable information.	
Not cla <u>Compo</u> Sodiur	ssified based on av onents:	ailable information.	
Sodiur			
	n nitrite:		
	exicity in vitro	: Test Type: Ba Result: positiv	acterial reverse mutation assay (AMES) ve
		Test Type: In Result: positiv	vitro mammalian cell gene mutation test /e
Genoto	oxicity in vivo	cytogenetic a Species: Mou	se oute: Intraperitoneal injection
		cytogenetic a Species: Rat	oute: Intraperitoneal injection
Not cla <u>Compo</u>	ogenicity ssified based on av onents: n nitrite:	ailable information.	
Specie	S	: Rat	
	tion Route	: Ingestion	
Exposu Result	ire time	: 2 Years : negative	
		-	
IARC	Group 2A Sodium ni	Probably carcinogeni	c to humans 7632-00-0
			ns that result in endogenous nitrosation)
II OSHA	•	nent of this product p s list of regulated carc	resent at levels greater than or equal to 0.1% i inogens.
NTP			esent at levels greater than or equal to 0.1% is ted carcinogen by NTP.
Reproc	ductive toxicity		
-	-	ailable information.	
	onents:		
	n nitrite: on fertility	- ·	vo-generation reproduction toxicity study



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		Species: Mouse Application Route: Ingestion Result: negative
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative
II STOT single exposure		
STOT-single exposure Not classified based on availa	ble	information.
STOT-repeated exposure		
Not classified based on availa	ble	information.
Repeated dose toxicity		
Components:		
Sodium nitrite:		
Species	:	Rat
NOAEL Application Route	÷	10 mg/kg Ingestion
Exposure time	÷	2 y
Not classified based on availa	DIE	
SECTION 12. ECOLOGICAL INFO		
SECTION 12. ECOLOGICAL INFO Ecotoxicity <u>Components:</u>		
ECTION 12. ECOLOGICAL INFO Ecotoxicity <u>Components:</u> Sodium nitrite:		ΜΑΤΙΟΝ
SECTION 12. ECOLOGICAL INFO Ecotoxicity <u>Components:</u>		
SECTION 12. ECOLOGICAL INFO Ecotoxicity Components: Sodium nitrite: Toxicity to fish Toxicity to daphnia and other	DRI :	MATION LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 15.4 mg/l
SECTION 12. ECOLOGICAL INFO Ecotoxicity <u>Components:</u> Sodium nitrite: Toxicity to fish	DRI :	MATION LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l Exposure time: 96 h
SECTION 12. ECOLOGICAL INFO Ecotoxicity Components: Sodium nitrite: Toxicity to fish Toxicity to daphnia and other	DRI :	MATION LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 15.4 mg/l Exposure time: 48 h
SECTION 12. ECOLOGICAL INFO Ecotoxicity Components: Sodium nitrite: Toxicity to fish Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic	DRI :	ATION LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 15.4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 72 h



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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: 4	3 h
Persis	tence and degradabili	ity		
No data	a available			
Bioaco	cumulative potential			
No data	a available			
Mobilit	ty in soil			
No data	a available			
Other a	adverse effects			
No data	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	: 111
Labels	: CLASS 9



secret

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ERG (Marin 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

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 Hazard	S	
SARA 313	:	The following components are subject to reporting levels 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 back	kground (environmental) lev	els.
California List of Hazardous Substa	ances	
Molybdenum compound Sodium nitrite		Trade secre 7632-00-0
Additional regulatory information		
	7000 00 0	

Sodium nitrite

7632-00-0



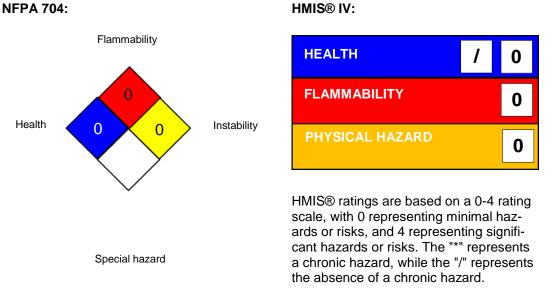
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The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740

SECTION 16. OTHER INFORMATION





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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

NIOSH REL	:	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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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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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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