

Versi 4.0	ion	Revision Date: 05/29/2018		9S Number: 88789-00004	Date of last issue: 01/04/2018 Date of first issue: 06/26/2017			
SEC	SECTION 1. IDENTIFICATION							
	Produc	t name	:	Krytox™ GPL 22	5			
	Produc	t code	:	D10176037				
	SDS-Id	entcode	:	130000031512				
	Manufa	acturer or supplier's o	deta	ils				
	Compa	ny name of supplier	:	The Chemours Company FC, LLC				
	Address		:	1007 Market Street Wilmington, DE 19899 United States of America (USA)				
	Telephone		:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)				
	Emergency telephone		:	Medical emergency: 1-866-595-1473 (outside the U.S. 1-302 773-2000) ; Transport emergency: +1-800-424-9300 (outsid the U.S. +1-703-527-3887)				
	Recom	mended use of the c	hen	nical and restriction	ons on use			
	Recom	mended use	:	Lubricant				
	Restrict	tions 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 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

Hazardous ingredients

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



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SECTION	4. FIRST AID MEASU	RES		
lf inha	aled	:	If inhaled, remo Get medical att	ve to fresh air. ention if symptoms occur.
In cas	In case of skin contact			er 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 att	O NOT induce vomiting. ention if symptoms occur. oroughly with water.
	important symptoms ffects, both acute and ed	:	Irritation Lung edema Eye contact ma Blurred vision Discomfort Lachrymation	provoke the following symptoms: ay provoke the following symptoms ay provoke the following symptoms:
Prote	ction of first-aiders	:	No special prec	autions are necessary for first aid responders
Notes	s to physician	:	Treat symptom	atically and supportively.

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



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				so. Evacuate area.	
		protective equipment fighters	:	Wear self-contain 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 recom	ng advice and personal protective nendations.
	Enviror	nmental precautions	:	Prevent further lea Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages ed.
		ls and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations 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 assessment 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/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/m³	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

Processing may form hazardous compounds (see section 10).
 Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection

: General and local exhaust ventilation is recommended to



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			concentrations ar unknown, approp Follow OSHA res use NIOSH/MSH, by air purifying re hazardous chemi supplied respirator release, exposure	sposures below recommended limits. Where e above recommended limits or are riate respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any cal is limited. Use a positive pressure air or if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide on.
Har	nd protection			
ł	Remarks	:	Wash hands befo	re breaks and at the end of workday.
Eye	protection	:	Wear the followin Safety glasses	g personal protective equipment:
Skir	n and body protection	:	Skin should be wa	ashed after contact.
Hyg	iene measures	:	located close to the When using do not	ushing systems and safety showers are ne working place. ot eat, drink or smoke. ed 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 flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available



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	flamma	bility limit			
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	1.89 - 1.93 (75 °ł	= / 24 °C)
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available	9
	Decom	position temperature	:	608 °F / 320 °C	
	Viscosii Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	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 : Hydrofluoric acid Carbonyl difluoride Carbon dioxide Carbon monoxide

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ECTION	11. TOXICOLOGICA	L INF(ORMATION
Inform	nation on likely rout	oo of .	
	nation on likely rout contact	25 01 0	exposure
Ingest			
Eye c	ontact		
	e toxicity		
Not cl	assified based on ava	ilable	information.
<u>Produ</u>			
Acute	oral toxicity	:	Assessment: The substance or mixture has no acute oral tox icity
Acute	inhalation toxicity	:	Acute toxicity estimate: > 200 mg/l
			Exposure time: 4 h Test atmosphere: dust/mist
			Method: Calculation method
<u>Comp</u>	oonents:		
	ım 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
Skin (corrosion/irritation		
Not cl	assified based on ava	ilable	information.
Comp	oonents:		
Sodiu	um nitrite:		
Speci	es	:	Rabbit
Metho		:	OECD Test Guideline 404
Resul	L	•	No skin irritation
	us eye damage/eye i assified based on ava		
Com	oonents:		
	um nitrite:		
Soult			Rabbit
Snooi		÷	Irritation to eyes, reversing within 21 days
Speci Resul			OECD Test Guideline 405
		:	
Resul Metho		: tizatio	
Resul Metho Resp	od	: tizatio	
Resul Metho Resp Skin	od iratory or skin sensi		n



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-	iratory sensitization assified based on ava	ilable information.	
Germ	cell mutagenicity		
	assified based on ava	ilable information.	
Com	<u>oonents:</u>		
Sodiı	ım nitrite:		
	toxicity in vitro	: Test Type: Bao Result: positive	eterial reverse mutation assay (AMES)
		Test Type: In v Result: positive	itro mammalian cell gene mutation test
Geno	toxicity in vivo	cytogenetic as Species: Mous	
		Result: negativ	
		cytogenetic as Species: Rat	ute: Intraperitoneal injection
<u>Com</u>	assified based on ava ponents: um nitrite:		
Speci		: Rat	
Applic	ation Route	: Ingestion	
Expos Resul	sure time t	: 2 Years : negative	
		-	
IARC	Group 2A: F Sodium nitri	Probably carcinogenic	to humans 7632-00-0
			s that result in endogenous nitrosation)
II OSH/		ent of this product pre list of regulated carci	sent at levels greater than or equal to 0.1% is nogens.
NTP			ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.
Not cl	oductive toxicity assified based on ava	ilable information.	
<u>Comp</u>	<u>oonents:</u>		
Sodiu	um nitrite:		

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sion	Revision Date: 05/29/2018		28 Number: 288789-00004	Date of first issue: 06/26/2017
			Species: Mouse Application Route Result: negative	: Ingestion
Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development :: Ingestion
	-single exposure assified based on availa	ıble	information.	
STOT	-repeated exposure			
Not cla	assified based on availa	ble	information.	
Repea	ated dose toxicity			
Comp	onents:			
Sodiu	m nitrite:			
Specie		:	Rat	
NOAE	L ation Route	:	10 mg/kg Ingestion	
		•		
Expos Aspira Not cla	ation toxicity assified based on availa			
Expos Aspira Not cla	ation toxicity assified based on availa 12. ECOLOGICAL INFO		information.	
Expos Aspira Not cla CTION Ecoto	ation toxicity assified based on availa 12. ECOLOGICAL INFO		information.	
Expos Aspira Not cla CTION Ecoto <u>Comp</u>	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity ponents:		information.	
Expos Aspira Not cla CTION Ecoto <u>Comp</u> Sodiu	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity		information.	thus mykiss (rainbow trout)): 0.54 mg/l 6 h
Expos Aspira Not cla CTION Ecoto Comp Sodiu Toxici	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity conents: m nitrite: ty to fish ty to daphnia and other	ORN :	information. MATION LC50 (Oncorhync Exposure time: 96 EC50 (Daphnia m	6 h nagna (Water flea)): 15.4 mg/l
Expos Aspira Not cla CTION Ecoto Comp Sodiu Toxici	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity ponents: m nitrite: ty to fish	ORN :	information. MATION LC50 (Oncorhync Exposure time: 96 EC50 (Daphnia m Exposure time: 48	6 h nagna (Water flea)): 15.4 mg/l 3 h
Expos 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	ORN :	information. MATION LC50 (Oncorhync Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T	5 h nagna (Water flea)): 15.4 mg/l 3 h est Guideline 202
Expos Aspira Not cla CTION Ecoto Comp Sodiu Toxici aquati	ation toxicity assified based on availa 12. ECOLOGICAL INFO xicity conents: m nitrite: ty to fish ty to daphnia and other	ORN :	information. MATION LC50 (Oncorhync Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T	6 h nagna (Water flea)): 15.4 mg/l 3 h
Expos 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	ORN :	information. MATION LC50 (Oncorhyno Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T EC50 (Scenedesi 100 mg/l Exposure time: 72	5 h nagna (Water flea)): 15.4 mg/l 3 h est Guideline 202 mus capricornutum (fresh water algae)): > 2 h
Expos 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	ORN :	information. MATION LC50 (Oncorhync Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T EC50 (Scenedesi 100 mg/l Exposure time: 72 Method: OECD T	6 h nagna (Water flea)): 15.4 mg/l 8 h est Guideline 202 mus capricornutum (fresh water algae)): > 2 h est Guideline 201
Expos 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	ORN :	information. MATION LC50 (Oncorhyno Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T EC50 (Scenedese 100 mg/l Exposure time: 72 Method: OECD T NOEC (Scenedese	6 h nagna (Water flea)): 15.4 mg/l 8 h est Guideline 202 mus capricornutum (fresh water algae)): > 2 h est Guideline 201
Expos 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	ORN :	information. MATION LC50 (Oncorhyno Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T EC50 (Scenedesi 100 mg/l Exposure time: 72 Method: OECD T NOEC (Scenedesi mg/l Exposure time: 72	5 h nagna (Water flea)): 15.4 mg/l 3 h est Guideline 202 mus capricornutum (fresh water algae)): > 2 h est Guideline 201 smus capricornutum (fresh water algae)): 1 2 h
Expos 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	ORN :	information. MATION LC50 (Oncorhyno Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T EC50 (Scenedesi 100 mg/l Exposure time: 72 Method: OECD T NOEC (Scenedesi mg/l	5 h nagna (Water flea)): 15.4 mg/l 8 h est Guideline 202 mus capricornutum (fresh water algae)): > 2 h est Guideline 201 smus capricornutum (fresh water algae)): 10 2 h
Expos 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	ORN :	information. MATION LC50 (Oncorhync Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T EC50 (Scenedesi 100 mg/l Exposure time: 72 Method: OECD T NOEC (Scenedesi mg/l Exposure time: 72 Method: OECD T	5 h nagna (Water flea)): 15.4 mg/l 3 h est Guideline 202 mus capricornutum (fresh water algae)): > 2 h est Guideline 201 smus capricornutum (fresh water algae)): 1 2 h est Guideline 201 carpio (Carp)): 21 mg/l

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			Method: OECD T	est Guideline 210
	 to daphnia and other invertebrates (Chron- ity) 	:	NOEC (Penaeid S Exposure time: 80	Shrimp): 9.86 mg/l) d
Toxicity	to microorganisms	:	EC50: 281 mg/l Exposure time: 48	3 h
Persist	ence and degradabili	ity		
No data	a available			
Bioaco	umulative potential			
No data	a available			
Mobilit	y 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 Proper shipping name	:	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Sodium nitrite)
Class	:	9
Packing group	:	
Labels	:	CLASS 9



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ERG (Marine Rema	e pollutant	SIZES WHERE	IFORMATION ONLY APPLIES TO PACKAGE 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
Sodium hydroxide	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

CADA 211/210 Herende No CADA Herende

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 Hazaros		
SARA 313	:	The following componen established by SARA Tit		
		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

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

California List of Hazardous Substa	inces	
Sodium nitrite		7632-00-0
Additional regulatory information		
Sodium nitrite	7632-00-0	

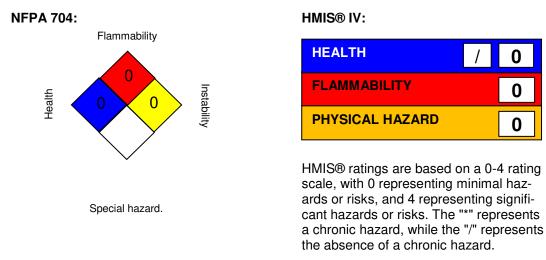


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The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740

SECTION 16. OTHER INFORMATION





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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. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

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 OSHA Z-1 / TWA OSHA Z-2 / TWA	:	Ceiling value not be exceeded at any time. 8-hour time weighted average 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation,

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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