



Version 5.1	Revision Date: 05/17/2019	SDS Number: 1790132-00007	Date of last issue: 11/07/2018 Date of first issue: 06/26/2017		
SECTIO	N 1. IDENTIFICATION				
Pro	duct name	: Corrugator K	rytox™ 226 FG		
SD	S-Identcode	: 13000003139	99		
Ma	nufacturer or supplier's	details			
Cor	npany name of supplier	: The Chemou	rs Company FC, LLC		
Ado	lress		1007 Market Street Wilmington, DE 19899 United States of America (USA)		
Tel	ephone	: 1-844-773-Cł	1-844-773-CHEM (outside the U.S. 1-302-773-1000)		
Em	ergency telephone	773-2000) ;	gency: 1-866-595-1473 (outside the U.S. 1-302- Transport emergency: +1-800-424-9300 (outside 03-527-3887)		
Red	commended use of the	chemical and rest	rictions on use		
Red	commended use	: Lubricant			
Res	strictions on use	tions involving internal body written agree	use only. resell Chemours™ materials in medical applica- g implantation in the human body or contact with fluids or tissues unless agreed to by Seller in a ment covering such use. For further information, ct 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	7632-00-0	>= 1 - < 5
A		

Actual concentration is withheld as a trade secret



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SECTION	4. FIRST AID MEASUR	RES			
lf inha	aled	:	If inhaled, removed Get medical atte	ve to fresh air. ention 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		If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
and e	Most important symptoms and effects, both acute and delayed		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	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 Nitrogen oxides (NOx) Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so.



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	Special protective equipment for fire-fighters		:	Evacuate area. Wear self-contained breathing apparatus for firefightin necessary. Use personal protective equipment.	
SEC	TION 6	ACCIDENTAL RELE	ASE	E MEASURES	
	tive equ	al precautions, protec- upment and emer- procedures	:	Follow safe handl equipment recom	ing advice and personal protective mendations.
	Environ	mental 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.
		s and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national n disposal of this m employed in the c determine which r Sections 13 and 1	t absorbent material. rovide diking or other appropriate ep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations 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	TŴA	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
		C	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

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 maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are



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			unknown, appropriate respiratory protection should be worn Follow OSHA respirator regulations (29 CFR 1910.134) an use NIOSH/MSHA approved respirators. Protection provide by air purifying respirators against exposure to any hazardous 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.		
Hand	protection				
Re	emarks	:	Wash hands befo	ore breaks and at the end of workday.	
Еуе р	Eye protection		: Wear the following personal protective equipment: Safety glasses		
Skin	and body protection	:	Skin should be w	ashed after contact.	
Hygie	ene measures	:	located close to t When using do n	lushing systems and safety showers are he working place. ot eat, drink or smoke. ted 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 flammability limit	:	No data available

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١	Vapor pressure		:	Not applicable	
F	Relative	e vapor density	:	Not applicable	
F	Relative	e density	:	1.89 - 1.93 (75 °F	-/ 24 °C)
S	Solubili Wat	ty(ies) er solubility	:	insoluble	
-	Partition octanol	n coefficient: n- /water	:	Not applicable	
A	Autoign	ition temperature	:	No data available)
Ε	Decom	position temperature	:	608 °F / 320 °C	
١	Viscosit Visc	y osity, kinematic	:	Not applicable	
E	Explosi	ve properties	:	Not explosive	
C	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
F	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			

Carbonyl difluoride Carbon dioxide Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

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	e toxicity assified based on ava	ilable	information.		
Produ	ıct:				
-	oral toxicity	:	Assessment: T icity	he substance or mixture has no acute oral tox-	
Acute inhalation toxicity		:	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
Comp	oonents:				
Sodiu	m nitrite:				
Acute	oral toxicity	:	LD50 (Rat): 180 mg/kg		
Acute	Acute inhalation toxicity : LC50 (Rat): 5.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist		: 4 h		
Skin o	corrosion/irritation				
	assified based on ava	ilable	information.		
Comp	onents:				
Sodiu	m nitrite:				
Specie		:	Rabbit		
Metho Resul		:	OECD Test Gu No skin irritatio		
Serio	us eye damage/eye i	rritati	on		
Not cl	assified based on ava	ilable	information.		
Comp	onents:				

Sodium 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.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.



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Compo	onents:		
Sodiur	n nitrite:		
Genoto	oxicity in vitro	: Test Type: Bao Result: positive	cterial reverse mutation assay (AMES) e
		Test Type: In v Result: positive	ritro mammalian cell gene mutation test e
Genoto	oxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
		cytogenetic as Species: Rat	ute: Intraperitoneal injection
	ogenicity ssified based on av	vailable information.	
Compo	onents:		
Sodiur	m nitrite:		
	s ation Route ure time	: Rat : Ingestion : 2 Years : negative	
IARC	Sodium n		to humans 7632-00-0 s that result in endogenous nitrosation)
OSHA	· · · · · · · · · · · · · · · · · · ·	onent of this product pre s list of regulated carci	esent at levels greater than or equal to 0.1% is nogens.
NTP		ient of this product pres as a known or anticipat	ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.
-	ductive toxicity ssified based on av	vailable information.	
Comp	onents:		
-	n nitrite:		
	on fertility	Species: Mous	
		Application Ro Result: negativ	



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Species: Rat Application Route: Ingestion Result: negative

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Sodium nitrite:

Species	:	Rat
NOAEL	:	10 mg/kg
Application Route	:	Ingestion
Exposure time	:	2 у

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Sodium nitrite:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 15.4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Scenedesmus capricornutum (fresh water algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Cyprinus carpio (Carp)): 21 mg/l Exposure time: 30 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Penaeid Shrimp): 9.86 mg/l Exposure time: 80 d





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	Toxicity	y to microorganisms	:	EC50: 281 mg/l Exposure time: 48	3 h
		tence and degradabi a available	lity		
		sumulative potential a available			
Mobility in soil No data available					
	••	adverse effects a available			
SEC	CTION 1	3. DISPOSAL CONSI	DEF	RATIONS	
	-	sal methods from residues	:	Dispose of in acc	ordance with local regulations.
	Contan	ninated packaging	:	Empty containers	should be taken to an approved waste

:	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	:	
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	no
Remarks	:	THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE
		SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS
		THE REPORTABLE QUANTITY.



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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

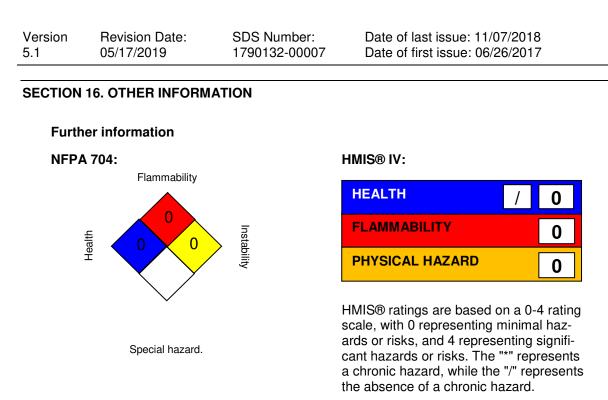
This material does not contain any components with a section 304 EHS RQ.

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 established by SARA Title III, Section 313:		
		Sodium nitrite	7632-00-0	>= 1 - < 5 %
US State Regulations				
Pennsylvania Right To Kno	w			
PFPE fluid				Trade secret
Fluoropolymer				Trade secret
Sodium nitrite				7632-00-0
California Prop. 65				
WARNING: This product can which is/are known to the Sta For more information go to w	te o	f California to caus	e birth defects or	
California List of Hazardous	s Su	Ibstances		
Sodium nitrite				7632-00-0
Additional regulatory inform	nati	on		
Sodium nitrite		7632-00-0		
The United States Environmental I Rule (SNUR) for one of the compo See 40 CFR § 721.4740			EPA) has establi	shed a Significant New Use





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

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% response; EMS - Extremely Hazardous Substance; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-



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tem; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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