according to the OSHA Hazard Communication Standard



### **PFA Fluoroplastic Resin C-980**

Versio 5.1	on Revision Date: 10/16/2024	SDS Number: 1535200-00044	Date of last issue: 05/03/2024 Date of first issue: 04/06/2017							
SECT	SECTION 1. IDENTIFICATION									
F	Product name	: PFA Fluoroplas	stic Resin C-980							
F	Product code	: D14364542								
5	SDS-Identcode	: 130000001226	6							
N	Manufacturer or supplier's	details								
C	Company name of supplier	: The Chemours	Company FC, LLC							
Þ	Address	: 1007 Market St Wilmington, DE	reet 19801 United States of America (USA)							
Г	Felephone	: 1-844-773-CHE	EM (outside the U.S. 1-302-773-1000)							
E	Emergency telephone		ency: 1-866-595-1473 (outside the U.S. 1-302- ransport emergency: +1-800-424-9300 (outside 3-527-3887)							
F	Recommended use of the	chemical and restric	tions on use							
F	Recommended use	: Resin for mould	ding and/or extrusion							
F	Restrictions on use	tions involving i internal body flu written agreem	se only. esell Chemours™ materials in medical applica- mplantation in the human body or contact with uids or tissues unless agreed to by Seller in a ent covering such use. For further information, your 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

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### 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

according to the OSHA Hazard Communication Standard



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#### Components

Chemical name	CAS-No.	Concentration (% w/w)				
Carbon black	1333-86-4	>= 1 - < 5				
Actual concentration is withheld as a trade secret						

#### SECTION 4. FIRST AID MEASURES

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Polymer fume fever
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
Notes to physician	:	Treat symptomatically and supportively.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
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
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.

according to the OSHA Hazard Communication Standard



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				o cool unopened containers. ged containers from fire area if it is safe to do
	Special protective equipment for fire-fighters	:	necessary.	ed breathing apparatus for firefighting if tective 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	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. 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.
		Do not breathe decomposition products.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types:

according to the OSHA Hazard Communication Standard



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			Strong oxidizing a	agents
	urther information on stor- ge stability	:	Stable under reco	ommended storage conditions.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Carbon black	1333-86-4	TWA (Inhal- able particu- late matter)	3 mg/m³	ACGIH
		TWA	3.5 mg/m <sup>3</sup>	NIOSH REL
		TWA	3.5 mg/m <sup>3</sup>	OSHA Z-1

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrogen fluoride	7664-39-3	TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
		TWA	3 ppm	OSHA Z-2
		С	6 ppm 5 mg/m³	NIOSH REL
		TWA	3 ppm 2.5 mg/m <sup>3</sup>	NIOSH REL
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		TWA	2 ppm 5 mg/m <sup>3</sup>	NIOSH REL
		ST	5 ppm 15 mg/m³	NIOSH REL
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	NIOSH REL
		ST	30,000 ppm 54,000 mg/m <sup>3</sup>	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	OSHA Z-1
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m <sup>3</sup>	NIOSH REL

according to the OSHA Hazard Communication Standard



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ersion 1	Revision Date: 10/16/2024		OS Number: 35200-00044		ast issue: 05/03/2024 irst issue: 04/06/201	
		ĺ		С	200 ppm 229 mg/m³	NIOSH REL
				TWA	50 ppm 55 mg/m³	OSHA Z-1
Engii	neering measures	:	10). Ensure adequ	ate ventilation	dous compounds (se n, especially in confir ire concentrations.	
Perso	onal protective equip	ment				
Resp	iratory protection	:	maintain vapo concentration unknown, app Follow OSHA use NIOSH/M by air purifying dous chemica respirator if th exposure leve	or exposures b s are above re propriate respi respirator reg ISHA approve g respirators a l is limited. Us ere is any pot els are unknow	ventilation is recommended below recommended commended limits of ratory protection sho julations (29 CFR 19 d respirators. Protec against exposure to a se a positive pressure ential for uncontrolle wh, or any other circu ors may not provide a	limits. Where or are uld be worn. 10.134) and tion provided iny hazar- e air supplied d release, mstance
	protection aterial	:	Heat resistant	gloves		
Re	emarks	:	on the concer applications, we micals of the a manufacturer.	ntration specif we recomment aforementione . Wash hands akthrough time	ands against chemica ic to place of work. F d clarifying the resist of protective gloves v before breaks and a e is not determined for	or special ance to che- vith the glove t the end of
Eye p	protection	:	Wear the follo Safety glasse	• •	I protective equipme	nt:
Skin a	and body protection	:	Skin should b	e washed afte	er contact.	
Hygie	ene measures	:	eye flushing s king place. When using d	ystems and s o not eat, drir	kely during typical us afety showers close t Ik or smoke. g before re-use.	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: pellets, granules

Color

according to the OSHA Hazard Communication Standard



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Ode	Dr	:	odorless	
Ode	or Threshold	:	No data available	9
pН		:	No data available	9
Me	ting point/freezing point	:	> 554 °F / > 290	°C
Initi ran	al boiling point and boiling ge	:	No data available	9
Fla	sh point	:	Not applicable	
Eva	poration rate	:	Not applicable	
Fla	nmability (solid, gas)	:	Not classified as explosive dust-ai	a flammability hazard, Not expected to form r mixtures.
	per explosion limit / Upper nmability limit	:	No data available	9
	ver explosion limit / Lower nmability limit	:	No data available	9
Vap	oor pressure	:	Not applicable	
Rel	ative vapor density	:	Not applicable	
Der	nsity	:	2.15 g/cm <sup>3</sup>	
Bul	< density	:	1,220 kg/m³	
	ubility(ies) Water solubility	:	insoluble	
	tition coefficient: n- anol/water	:	Not applicable	
Aut	oignition temperature	:	No data available	9
Dec	composition temperature	:	No data available	9
	cosity Viscosity, kinematic	:	Not applicable	
Exp	losive properties	:	Not explosive	
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.

according to the OSHA Hazard Communication Standard



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		:	No data availabl	e	
SECTION 10. STABILITY AND REACTIVITY					
Reactiv	ity	:	Not classified as	a reactivity hazard.	
Chemical stability		:	Stable under normal conditions.		
Possibility of hazardous reac- tions		:		trong oxidizing agents. Imposition products will be formed at elevated	
Conditio	ons to avoid	:	None known.		
ncomp	atible materials	:	Oxidizing agents	3	
Hazardous decomposition partition partition		orod :	ducts Hydrogen fluoride Carbonyl difluoride Carbon dioxide Carbon monoxide		
	article article ON 1 eactiv hemic ossibi ons onditions acomp	10/16/2024 article characteristics article size ON 10. STABILITY AND RE eactivity hemical stability ossibility of hazardous reac- ons onditions to avoid compatible materials azardous decomposition p	10/16/2024       153         article characteristics article size       :         ON 10. STABILITY AND REAC eactivity       :         hemical stability       :         ossibility of hazardous reac- ons       :         onditions to avoid       :         acompatible materials       :	10/16/20241535200-00044article characteristics article size:No data availableION 10. STABILITY AND REACTIVITYeactivity:Not classified as hemical stabilityhemical stability:Stable under no ossibility of hazardous reac- temperatures.onditions to avoid:None known.acompatible materials:Oxidizing agentsazardous decomposition:Hydrogen fluorid Carbonyl difluor Carbon dioxide	

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

#### Components:

#### Carbon black:

Acute oral toxicity

: LD50 (Rat): > 10,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

Carbon black:

Species	:	Rabbit
Result	:	No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

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### Components:

#### Carbon black:

Species	: Rabbit
Result	: No eye irritation
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.

#### Components:

#### Carbon black:

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

#### Germ cell mutagenicity

Not classified based on available information.

#### Components:

Carbon black:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
	Test Type: In vitro sister chromatid exchange assay in mam- malian cells Method: OECD Test Guideline 479 Result: negative
	Test Type: in vitro micronucleus test Method: OECD Test Guideline 487 Result: negative
Genotoxicity in vivo	<ul> <li>Test Type: Sex-linked recessive lethal test in Drosophila mel- anogaster (in vivo)</li> <li>Species: Drosophila melanogaster (vinegar fly)</li> <li>Application Route: Ingestion</li> <li>Method: OECD Test Guideline 477</li> <li>Result: negative</li> </ul>

according to the OSHA Hazard Communication Standard



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Carci	nogenicity		
Not cl	assified based on ava	ilable information.	
<u>Com</u>	<u>oonents:</u>		
Carbo	on black:		
Speci		: Rat	
	cation Route sure time	: Inhalation : 24 Months	
Resu		: positive	
Speci	es	: Rat	
	ation Route	: Ingestion	
Expos Resul	sure time t	: 2 Years : negative	
i tesu	l de la construcción de la const	. negative	
Carcii ment	nogenicity - Assess-	: Weight of ev cinogen	idence does not support classification as a car-
IARC			esent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.
OSH		ent of this product p list of regulated car	resent at levels greater than or equal to 0.1% i cinogens.
NTP			esent at levels greater than or equal to 0.1% is ated carcinogen by NTP.
Repro	oductive toxicity		
Not cl	assified based on ava	ilable information.	
Com	oonents:		
Carbo	on black:		
Effect	s on fetal developmer	nt : Test Type: E	mbryo-fetal development
		Species: Rat	
			Route: Ingestion CD Test Guideline 414
		Result: nega	
			mbryo-fetal development
		Species: Mo	use Route: inhalation (dust/mist/fume)
		Result: nega	
стот	-single exposure		
	assified based on ava	ilable information	

### STOT-repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

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### SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Components:Carbon black:Toxicity to fish:LL50 (Danio rerio (zebra fish)): > 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates::EL50 (Daphnia magna (Water flea)): > 5,600 mg/l Exposure time: 24 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202:Toxicity to algae/aquatic plants::EL10 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
<ul> <li>Toxicity to fish</li> <li>LL50 (Danio rerio (zebra fish)): &gt; 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203</li> <li>Toxicity to daphnia and other aquatic invertebrates</li> <li>EL50 (Daphnia magna (Water flea)): &gt; 5,600 mg/l Exposure time: 24 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202</li> <li>Toxicity to algae/aquatic plants</li> <li>EL10 (Desmodesmus subspicatus (green algae)): &gt; 10,000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction</li> </ul>
<ul> <li>Exposure time: 96 h Method: OECD Test Guideline 203</li> <li>Toxicity to daphnia and other aquatic invertebrates</li> <li>EL50 (Daphnia magna (Water flea)): &gt; 5,600 mg/l Exposure time: 24 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202</li> <li>Toxicity to algae/aquatic plants</li> <li>EL10 (Desmodesmus subspicatus (green algae)): &gt; 10,000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction</li> </ul>
aquatic invertebrates       Exposure time: 24 h         Test substance: Water Accommodated Fraction         Method: OECD Test Guideline 202         Toxicity to algae/aquatic         plants         EL10 (Desmodesmus subspicatus (green algae)): > 10,000         mg/l         Exposure time: 72 h         Test substance: Water Accommodated Fraction
plants mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction
EL50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Persistence and degradability No data available
Bioaccumulative potential No data available
<b>Mobility in soil</b> No data available
Other adverse effects No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
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.

according to the OSHA Hazard Communication Standard



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#### **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** Not regulated as a dangerous good

Special precautions for user

Not applicable

### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### 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 Hazards	

SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)
		reporting levels established by SARA Title III, Section 313.

#### **US State Regulations**

#### Pennsylvania Right To Know

Poly(pentafluoroethyl trifluorovinyl ether/tetrefluoroethylene)	31784-04-0
Carbon black	1333-86-4

#### California Prop. 65

WARNING: This product can expose you to chemicals including Carbon monoxide, 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.

#### California List of Hazardous Substances

Carbon black

1333-86-4

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Califo	rnia Permissible Ex Carbon black	posure Limits for (	Chemical Contaminants	33-86-4	
SECTION	16. OTHER INFORM	ATION			
Furth	er information				
NFPA	704:		HMIS® IV:		
	Flammability		HEALTH	1	0
Heal		Instability	FLAMMABILITY		1
			PHYSICAL HAZARD		0
	Special hazard	I	HMIS® ratings are based on scale, with 0 representing mi ards or risks, and 4 represen cant hazards or risks. The "* a chronic hazard, while the "/ the absence of a chronic haz	nimal h iting sig " repres /" repres	az- nifi- sents

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#### Full text of other abbreviations

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-2	:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C 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

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 Sub-

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stances 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to : compile the Material Safety Data Sheet	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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Revision Date : 10/16/2024

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