according to the OSHA Hazard Communication Standard



### PFA Fluoroplastic Resin 445HP X

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SECTION 1. IDENTIFICATION									
Р	Product name		:	PFA Fluoroplastic Resin 445HP X					
S	SDS-Identcode		:	130000144515	130000144515				
Μ	lanufa	acturer or supplier's	deta	ails					
С	Compa	ny name of supplier	:	The Chemours C	ompany FC, LLC				
A	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)					
Т	Telephone		:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)					
E	Emergency telephone		:	Medical emergency: 1-866-595-1473 (outside the U.S. 1-302-773-2000) ; Transport emergency: +1-800-424-9300 (outside the U.S. +1-703-527-3887)					
R	Recom	mended use of the c	hen	nical and restriction	ons on use				
R	Recommended use		:	Resin for moulding and/or extrusion					
Restrictions on use		:	For industrial use only., Do not use or resell Chemours <sup>™</sup> ma- terials in medical applications 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 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	:	Substance
Substance name	:	Poly(Heptafluoropropyl Trifluorovinyl Ether/Tetrafluoroethylene)
CAS-No.	:	26655-00-5

according to the OSHA Hazard Communication Standard



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### Components

No hazardous ingredients

#### **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	:	None known.
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.

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				to 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
Further information on stor- age stability		:	Stable under reco	ommended storage conditions.

### 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
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/m <sup>3</sup>	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/m³	OSHA Z-1
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m <sup>3</sup>	NIOSH REL
		С	200 ppm 229 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 55 mg/m³	OSHA Z-1

**Engineering measures** 

: Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas.

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		Ν	Minimize workplac	ce exposure concentrations.					
Pers	Personal protective equipment								
Resp	Respiratory protection		General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. We concentrations are above recommended limits or are unknown, appropriate respiratory protection should be we Follow OSHA respirator regulations (29 CFR 1910.134) a use NIOSH/MSHA approved respirators. Protection prove by air purifying respirators against exposure to any haza dous chemical is limited. Use a positive pressure air supp 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								
R	emarks	: \	Wash hands befo	re breaks and at the end of workday.					
Eye	protection		Wear the following Safety glasses	g personal protective equipment:					
Skin	and body protection	: 5	Skin should be wa	ashed after contact.					
Hygie	ene measures	e k V	eye flushing syste king place. When using do no	mical is likely during typical use, provide ms and safety showers close to the wor- ot eat, drink or smoke. ed clothing before re-use.					

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	granules
Color	:	translucent
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	> 572 °F / > 300 °C
Initial boiling point and boiling range	:	No data available

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F	Flash po	oint	:	Not applicable	
E	Evapora	ation rate	:	Not applicable	
F	Flamma	ability (solid, gas)	:	Not classified as explosive dust-ai	a flammability hazard, Not expected to form r mixtures.
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	)
١	Vapor p	ressure	:	Not applicable	
F	Relative	e vapor density	:	Not applicable	
F	Relative	edensity	:	2.1 - 2.2	
S	Solubilit Wate	ry(ies) er solubility	:	insoluble	
	Partitior	n coefficient: n- /water	:	No data available	
A	Autoign	ition temperature	:	No data available	)
[	Decomp	position temperature	:	No data available	
١	Viscosit Visco	y osity, kinematic	:	Not applicable	
E	Explosiv	ve properties	:	Not explosive	
C	Oxidizin	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle Particle	characteristics 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	:	Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	:	None known.

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Inco	mpatible materials	: Oxidizing agent	S
	ardous decompositior mal decomposition	n products : Hydrogen fluorio Carbonyl difluor Carbon dioxide Carbon monoxio	ide
SECTION	N 11. TOXICOLOGICAI		
Skin Inge	rmation on likely route contact stion contact	es of exposure	
	<b>te toxicity</b> classified based on ava	ilable information.	
•••••	corrosion/irritation	ilable information.	
	ous eye damage/eye i classified based on ava		
Res	piratory or skin sensit	ization	
-	sensitization	ilable information.	
-	piratory sensitization classified based on ava	ilable information.	
Gerr	n cell mutagenicity		
Not o	classified based on ava	ilable information.	
Carc	cinogenicity		
Not o IARO		nt of this product preser	nt at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.
OSH		ent of this product prese list of regulated carcino	ent at levels greater than or equal to 0.1% is gens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified based on available information.

### STOT-single exposure

Not classified based on available information.

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### STOT-repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
No data available
Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
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.

### **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

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#### 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
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#### 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(Heptafluoropropyl Trifluorovinyl Ether/Tetrafluoroethylene)

26655-00-5

#### 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 cancer, and 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. Note to User: This product is not made with PFOA nor is PFOA intentionally present in the product; however, it is possible that PFOA may be present as an impurity at background (environmental) levels.

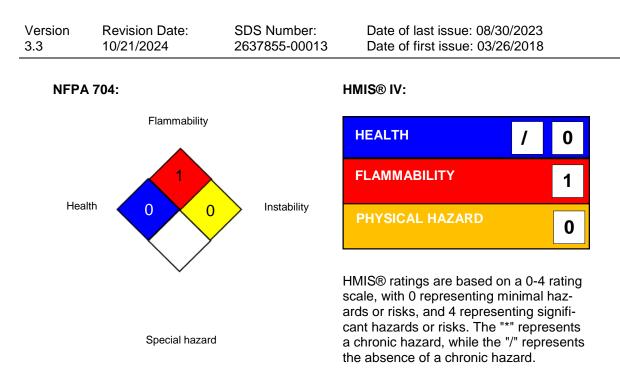
### **SECTION 16. OTHER INFORMATION**

**Further information** 

according to the OSHA Hazard Communication Standard



### PFA Fluoroplastic Resin 445HP X



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For further information contact the local Chemours office or nominated distributors.

#### Full text of other abbreviations

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

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tion; 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	:	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/

Revision Date

: 10/21/2024

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