

Versi 4.0	on	Revision Date: 11/08/2022		OS Number: 28913-00012	Date of last issue: 04/01/2022 Date of first issue: 06/29/2017			
SECT	TION 1	IDENTIFICATION						
F	Product name		:	Tefzel™ Fluoroplastic Resin HT-2202				
F	Product	code	:	D11118224				
ç	SDS-Id	entcode	:	130000044100				
I	Manufa	ecturer or supplier's	deta	ails				
(Compa	ny name of supplier	:	The Chemours Company FC, LLC				
/	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)				
-	Telephone		:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)				
ł	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)				
F	Recom	mended use of the c	hen	nical and restriction	ons on use			
F	Recom	mended use	:	Resin for mouldin	g and/or extrusion			
F	Restrict	ions on use	:	tions involving im internal body fluid written agreemen	only. ell Chemours™ materials in medical applica- plantation in the human body or contact with ls 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 the OSHA Hazard Communication Standard (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	:	Substance
Substance name	:	Poly(Ethylene/3,3,4,4,5,5,6,6,6-Nonafluoro-1- Hexene/Tetrafluoroethylene)



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C	CAS-N	0.	:	68258-85-5			
Components No hazardous ingredients							
SECT	FION 4	. FIRST AID MEASUR	ES				
li	f inhale	ed	:	If inhaled, remove Get medical atten	e to fresh air. tion if symptoms occur.		
lı	n case	of skin contact	:		and soap as a precaution. tion if symptoms occur.		
l	n case	of eye contact	:		ater as a precaution. tion if irritation develops and persists.		
ľ	f swall	owed	:	Get medical atten	NOT induce vomiting. tion if symptoms occur. oughly with water.		
a		nportant symptoms ects, both acute and d	:	Polymer fume fev	er		
F	Protect	ion of first-aiders	:	No special precau	utions are necessary for first aid responders.		
٢	Notes t	o physician	:	Treat symptomati	cally and supportively.		
SECT	SECTION 5. FIRE-FIGHTING MEASURES						
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
	Unsuita media	able extinguishing	:	None known.			

Specific hazards during fire : Exposure to combustion products may be a hazard to health.

fighting	•	
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. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.



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	Special protective equipment for fire-fighters		Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.			
SECTION	6. ACCIDENTAL RELE	ASI	E MEASURES			
tive e	onal precautions, protec- quipment and emer- y procedures	:		Idling advice (see section 7) and personal pro- ent recommendations (see section 8).		
Envir	onmental precautions	:	Prevent further Retain and disp	o the environment. leakage or spillage if safe to do so. ose of contaminated wash water. s should be advised if significant spillages ained.		
	ods and materials for inment and cleaning up	:	 Sweep up or vacuum up spillage and collect in suitable of tainer for disposal. Local or national regulations may apply to releases and of sal of this material, as well as those materials and items ployed in the cleanup of releases. You will need to detern which regulations are applicable. Sections 13 and 15 of this SDS provide information rega certain local or national requirements. 			
SECTION	7. HANDLING AND ST	OR/	AGE			
Tech	nical measures	:	See Engineerin	g measures under EXPOSURE		

rechnical measures	•	CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe decomposition products.
		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	:	Do not store with the following product types: Strong oxidizing agents
Further information on stor- age stability	:	Stable under recommended storage conditions.



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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
Hydrogen fluoride	7664-39-3	TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
		С	6 ppm 5 mg/m³	NIOSH REL
		TWA	3 ppm 2.5 mg/m ³	NIOSH REL
		TWA	3 ppm	OSHA Z-2
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		TWA	2 ppm 5 mg/m ³	NIOSH REL
		ST	5 ppm 15 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	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m ³	OSHA Z-1
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

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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 use N by air dous o respira expos	v OSHA resp IOSH/MSHA purifying res chemical is lin ator if there is sure levels are air purifying	ate respiratory protection should be worn. irator regulations (29 CFR 1910.134) and approved respirators. Protection provided pirators against exposure to any hazar- mited. Use a positive pressure air supplied s any potential for uncontrolled release, e unknown, or any other circumstance respirators may not provide adequate
	protection aterial	: Heat r	resistant glov	es
Re	Remarks		e concentrationations, we re s of the afore facturer. Was	protect hands against chemicals depending on specific to place of work. For special commend clarifying the resistance to che- mentioned protective gloves with the glove sh hands before breaks and at the end of ough time is not determined for the pro- es often!
Eye p	protection		the following / glasses	personal protective equipment:
Skin a	and body protection	: Skin s	should be was	shed after contact.
Hygie	ene measures	eye flu king p When	ushing syster lace. using do not	nical is likely during typical use, provide ns and safety showers close to the wor- t eat, drink or smoke. d clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	pellets, granules
Color	:	off-white
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	> 482 °F / > 250 °C
Initial boiling point and boiling range	:	No data available

SAFETY DATA SHEET



Tefzel[™] Fluoroplastic Resin HT-2202

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	Flash p	ooint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	Not classified as	a flammability hazard
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Density	/	:	1.7 g/cm ³	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partitio octanol	n coefficient: n- /water	:	No data available	
	Autoigr	nition temperature	:	No data available	
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
	Particle	e size	:	No data available	3

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.		
Incompatible materials	:	Oxidizing agents		
Hazardous decomposition products				

Thermal decomposition : Hydrogen fluoride



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		Carbonyl difluoric Carbon dioxide Carbon monoxide	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

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.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **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.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.



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SECTION	SECTION 12. ECOLOGICAL INFORMATION						
	oxicity ata available						
	Persistence and degradability No data available						
	Bioaccumulative potential No data available						
	Mobility in soil No data available						
Othe	r adverse effects						
No da	No data available						
SECTION	SECTION 13. DISPOSAL CONSIDERATIONS						
Disp	osal 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 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.



68258-85-5

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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(Ethylene/3,3,4,4,5,5,6,6,6-Nonafluoro-1-Hexene/Tetrafluoroethylene)

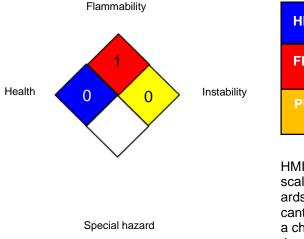
California Prop. 65

WARNING: This product can expose you to chemicals including Pentadecafluorooctanoic acid, which is/are known to the State of California to cause cancer, and 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 background (environmental) levels.

SECTION 16. OTHER INFORMATION







HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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

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 Limits 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		

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 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 : Internal technical data, data from raw material SDSs, OECD



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compile the Material Safety			eChem Portal sea	arch results and European Chemicals Agen-
Data Sheet			cy, http://echa.eu	ropa.eu/
Revision Date		:	11/08/2022	

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.

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