

Versio 4.0	n Revision Date: 11/08/2022	SDS Number: 1728916-00013		Date of last issue: 04/01/2022 Date of first issue: 06/29/2017			
SECT	ON 1. IDENTIFICATION						
Р	roduct name	:	Tefzel™ Fluoroplastic Resin HT-2162				
Р	roduct code	:	D11518704				
S	DS-Identcode	:	130000051834				
Μ	anufacturer or supplier's	detai	ls				
С	ompany 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. 1-30 773-2000) ; Transport emergency: +1-800-424-9300 (outsi the U.S. +1-703-527-3887)				
R	ecommended use of the c	hemi	cal and restriction	ons on use			
R	ecommended use	:	Resin for mouldin	g and/or extrusion			
R	estrictions 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 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 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)



Versior 4.0	n Revision Date: 11/08/2022	-	0S Number: 28916-00013	Date of last issue: 04/01/2022 Date of first issue: 06/29/2017	
C/	AS-No.	:	68258-85-5		
	omponents o hazardous ingredients				
SECTI	ON 4. FIRST AID MEASUR	ES			
lf i	inhaled	:	If inhaled, remove Get medical atter	e to fresh air. tion if symptoms occur.	
In	In case of skin contact			and soap as a precaution. tion if symptoms occur.	
In	In case of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
lf :	If swallowed		If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
ar	Most important symptoms and effects, both acute and delayed		Polymer fume fev	er	
Pr	otection of first-aiders	:	No special precau	utions are necessary for first aid responders.	
No	Notes to physician		Treat symptomatically and supportively.		
SECTI	ON 5. FIRE-FIGHTING ME	ASL	JRES		
Su	uitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C 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. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.



Version 4.0	Revision Date: 11/08/2022		OS Number: 28916-00013	Date of last issue: 04/01/2022 Date of first issue: 06/29/2017
	ial protective equipment e-fighters	:	necessary.	ained breathing apparatus for firefighting if rotective equipment.
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- equipment and emer- y procedures	:		ndling 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. bose of contaminated wash water. s should be advised if significant spillages ained.
	ods and materials for ainment and cleaning up	:	tainer for dispo- Local or national sal of this mate ployed in the cl which regulatio Sections 13 and	acuum up spillage and collect in suitable con- sal. al regulations may apply to releases and dispo rial, as well as those materials and items em- eanup of releases. You will need to determine ns are applicable. d 15 of this SDS provide information regarding national requirements.
SECTION	7. HANDLING AND ST	OR	AGE	
Tech	nical measures	:		g measures under EXPOSURE ERSONAL PROTECTION section.

		CONTROLS/FERSONAL FROTECTION 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.



Version	Revision Date:	SDS Number:	Date of last issue: 04/01/2022
4.0	11/08/2022	1728916-00013	Date of first issue: 06/29/2017

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/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 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
		C	200 ppm 229 mg/m ³	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. Minimize workplace exposure concentrations.

Personal protective equipment

:

1

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are



Tefzel™ Fluoroplastic Resin HT-2162

Version 4.0	Revision Date: 11/08/2022	SDS Numbe 1728916-000			
		Follow O use NIOS by air pu dous che respirato exposure	, appropriate respiratory protection should be worn. SHA respirator regulations (29 CFR 1910.134) and SH/MSHA approved respirators. Protection provided rifying respirators against exposure to any hazar- mical is limited. Use a positive pressure air supplied r if there is any potential for uncontrolled release, e levels are unknown, or any other circumstance r purifying respirators may not provide adequate n.		
	protection aterial	: Heat resi	stant gloves		
Re	Remarks		Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to che- micals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the pro- duct. Change gloves often!		
Еуе р	protection	: Wear the Safety gl	following personal protective equipment: asses		
Skin a	and body protection	: Skin sho	uld be washed after contact.		
Hygie	ene measures	eye flush king plac When us	re to chemical is likely during typical use, provide ing systems and safety showers close to the wor- e. ing do not eat, drink or smoke. ntaminated clothing before re-use.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	pellets, granules
Color	:	off-white, translucent
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	> 473 °F / > 245 °C
Initial boiling point and boiling range	:	No data available



Vers 4.0	sion	Revision Date: 11/08/2022		S Number: 28916-00013	Date of last issue: 04/01/2022 Date of first issue: 06/29/2017
	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	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.		
Incompatible materials	:	Oxidizing agents		
Hazardous decomposition products				

Thermal decomposition : Hydrogen fluoride



Version	Revision Date:	SDS Number:	Date of last issue: 04/01/2022
4.0	11/08/2022	1728916-00013	Date of first issue: 06/29/2017
		Carbonyl difluorio Carbon dioxide Carbon monoxid	

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.



Version 4.0	Revision Date: 11/08/2022	SDS Number: 1728916-00013	Date of last issue: 04/01/2022 Date of first issue: 06/29/2017
SECTION	12. ECOLOGICAL II	NFORMATION	
	oxicity ata available		
	istence and degrada	bility	
	ata available		
Bioa	ccumulative potentia	al	
No da	ata available		
Mobi	ility in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		
SECTION	13. DISPOSAL CON	ISIDERATIONS	
Disp	osal methods		
-	e from residues	· Dispose of in a	coordance with local regulations

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

Tefzel[™] Fluoroplastic Resin HT-2162

Version	Revision Date:	SDS Number:	Date of last issue: 04/01/2022
4.0	11/08/2022	1728916-00013	Date of first issue: 06/29/2017

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)

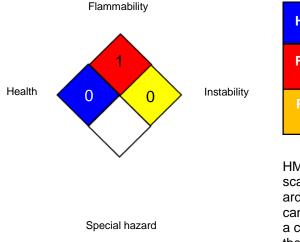
California Prop. 65

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.

Tefzel[™] and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.

Chemours [™] and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.



Version	Revision Date:	SDS Number:	Date of last issue: 04/01/2022
4.0	11/08/2022	1728916-00013	Date of first issue: 06/29/2017

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 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		

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



Version	Revision Date:		DS Number:	Date of last issue: 04/01/2022
4.0	11/08/2022		728916-00013	Date of first issue: 06/29/2017
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.

US / Z8