

Versio 4.0	on Revision Date: 11/08/2022		OS Number: 28805-00012	Date of last issue: 04/01/2022 Date of first issue: 06/29/2017
SECT	ION 1. IDENTIFICATION			
F	Product name	:	Tefzel™ Fluoropl	astic Resin HT-2184
F	Product code	:	D10268458	
S	SDS-Identcode	:	130000034084	
Ν	Anufacturer or supplier	s deta	ails	
C	Company name of supplier	:	The Chemours C	ompany FC, LLC
A	Address	:	1007 Market Stre Wilmington, DE 1	et 9801 United States of America (USA)
Т	elephone	:	1-844-773-CHEN	l (outside the U.S. 1-302-773-1000)
E	Emergency telephone	:	0	cy: 1-866-595-1473 (outside the U.S. 1-302- nsport emergency: +1-800-424-9300 (outside 527-3887)
F	Recommended use of the	chen	nical and restriction	ons on use
F	Recommended use	:	Resin for mouldin	g and/or extrusion
F	Restrictions on use	:	tions involving im internal body fluic 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, our 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. Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	Poly(Ethylene/3,3,4,4,5,5,6,6,6-Nonafluoro-1-



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			Hexene/Tetraflu	uoroethylene)
CAS-	No.	:	68258-85-5	
-	ponents azardous ingredients			
SECTION	4. FIRST AID MEASUR	ES		
Gene	ral advice	:	vice immediate	ccident or if you feel unwell, seek medical ad- y. s persist or in all cases of doubt seek medical
lf inha	aled	:	If inhaled, remo Get medical att	ve to fresh air. ention if symptoms occur.
In cas	se of skin contact	:	Wash with wate Get medical att	er and soap. ention if symptoms occur.
In cas	se of eye contact	:	If in eyes, rinse Get medical att	well with water. ention if irritation develops and persists.
lf swa	allowed	:	Get medical att	O NOT induce vomiting. ention if symptoms occur. oroughly with water.
	important symptoms ffects, both acute and ed	:	the skin.	ever st can cause mechanical irritation or drying of th the eyes can lead to mechanical irritation.
Prote	ction of first-aiders	:	No special prec	autions are necessary for first aid responders.
Notes	s to physician	:	Treat symptom	atically and supportively.
SECTION	5. FIRE-FIGHTING ME	ASL	IRES	
Suital	ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
Speci fightir	ific hazards during fire	:	Exposure to co	mbustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Hydrogen fluori carbonyl fluorid potentially toxic aerosolized par	e fluorinated compounds



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			Carbon oxides	
	Specific extinguishing meth- ods	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. 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 rective equipment.
SEC	TION 6. ACCIDENTAL RELE	AS	E MEASURES	
	Personal precautions, protec- tive equipment and emer- gency procedures	• :		ing advice (see section 7) and personal pro- recommendations (see section 8).
	Environmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Local or national is sal of this materia ployed in the clea which regulations Sections 13 and 1	dust in the air (i.e., clearing dust surfaces air). egulations may apply to releases and dispo- l, as well as those materials and items em- nup of releases. You will need to determine

#### 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	:	Do not breathe decomposition products.
		Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Minimize dust generation and accumulation. Keep container closed when not in use. Take care to prevent spills, waste and minimize release to the environment.

certain local or national requirements.



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Conc	litions for safe storage	:		labeled containers. nce with the particular national regulations.
Mate	rials to avoid	:	Do not store with Strong oxidizing a	the following product types: agents
	ner information on stor- 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
		С	6 ppm 5 mg/m³	NIOSH REL
		TWA	3 ppm 2.5 mg/m <sup>3</sup>	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 <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	OSHA Z-1



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			55 mg/m³
Engi	neering measures	:	Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Pers	onal protective equip	ment	
Resp	iratory protection	:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazar- dous 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.
	l protection aterial	:	Heat resistant gloves
R	emarks	:	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!
Eye p	protection	:	Wear the following personal protective equipment: Safety goggles
Skin	and body protection	:	Skin should be washed after contact.
Hygie	ene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the wor- king place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: powder

Color



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	Odor		:	odorless	
	Odor Th	nreshold	:	No data available	9
	рН		:	No data available	9
	Melting	point/freezing point	:	> 446 °F / > 230	°C
	Initial bo range	piling point and boiling	:	No data available	•
	Flash po	pint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	bility (solid, gas)	:	Not classified as	a flammability hazard
		xplosion limit / Upper pility limit	:	No data available	9
		xplosion limit / Lower pility limit	:	No data available	9
	Vapor p	ressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Density		:	1.7 g/cm <sup>3</sup>	
	Solubilit Wate	y(ies) er solubility	:	insoluble	
	Partitior octanol/	n coefficient: n- water	:	No data available	9
	Autoigni	ition temperature	:	No data available	2
	Decomp	position temperature	:	No data available	9
	Viscosit Visco	y osity, kinematic	:	Not applicable	
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	g properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle	size	:	No data available	2

#### SECTION 10. STABILITY AND REACTIVITY



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	Reactiv	vity	:	Not classified as	a reactivity hazard.
	Chemi	cal stability	:	Stable under nor	mal conditions.
	Possibi tions	lity of hazardous reac-	:		rong oxidizing agents. mposition products will be formed at elevated
	Conditi	ons to avoid	:	None known.	
	Incomp	atible materials	:	Oxidizing agents	
		lous decomposition p al decomposition	brod :		de

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation 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



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	identified a	s a known or anticipate	d carcinogen by NTP.
-	oductive toxicity assified based on ava	ailable information	
STOT	<b>-single exposure</b> assified based on ava		
	<b>-repeated exposure</b> assified based on ava		
-	<b>ation toxicity</b> assified based on ava	ailable information.	
SECTION	12. ECOLOGICAL IN	NFORMATION	
Ecoto		NFORMATION	
Ecoto No da Persis	oxicity		
Ecoto No da Persis No da Bioac	oxicity ta available stence and degrada	bility	
Ecoto No da Persis No da Bioac No da Mobil	exicity ta available stence and degrada ta available scumulative potentia	bility	

Disposal 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.



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Dome	estic regulation			
	<b>49 CFR</b> Not regulated as a dangerous good			
Spec	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(Ethylene/3,3,4,4,5,5,6,6,6-Nonafluoro-1- 68258-85-5 Hexene/Tetrafluoroethylene)

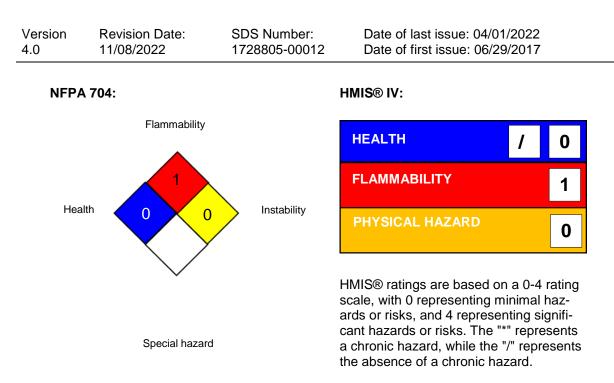
#### California Prop. 65

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**

**Further information** 





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

#### 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 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



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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
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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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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