according to the OSHA Hazard Communication Standard



ECCtreme™ ECA 4000 Fluoroplastic Resin

Versio 5.2		Revision Date: 10/31/2023		OS Number: 07760-00015	Date of last issue: 04/12/2023 Date of first issue: 07/12/2017			
SECTI	SECTION 1. IDENTIFICATION							
P	Product name		:	ECCtreme™ ECA	A 4000 Fluoroplastic Resin			
S	DS-Ide	entcode	:	130000132028				
М	lanufa	cturer or supplier's o	deta	iils				
С	compar	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)				
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	ecomr	nended use of the c	hen	nical and restriction	ons on use			
R	Recommended use		:	Resin for mouldin	g and/or extrusion			
Restrictions on use		:	For industrial use only. Do not use or resell Chemours™ materials in medical applica- tions 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	:	Fluoropolymer
CAS-No.	:	Trade secret

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



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	Special protective equipment for fire-fighters		:	Evacuate area. Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.		
SEC	CTION 6	. ACCIDENTAL RELE	ASE	EMEASURES		
	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.		
		ls and materials for ment and cleaning up	:	tainer for disposal Local or national r sal of this materia ployed in the clear which regulations Sections 13 and 1	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		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: Strong oxidizing agents
Further information on stor- age stability	:	Stable under recommended storage conditions.

according to the OSHA Hazard Communication Standard



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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
		C	2 ppm (Fluorine)	ACGIH
		C	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/m³	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/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

Respiratory protection

: General and local exhaust ventilation is recommended to

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concentrations a unknown, approj Follow OSHA re- use NIOSH/MSF by air purifying re dous chemical is respirator if there exposure levels		sposures below recommended limits. Where e above recommended limits or are riate respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any hazar- limited. Use a positive pressure air supplied is any potential for uncontrolled release, re unknown, or any other circumstance g respirators may not provide adequate		
	Hand protection Material		Heat resistant glo	ves
R	Remarks		Choose gloves to protect hands against chemicals dependin 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 followin Safety glasses	g personal protective equipment:
Skin	and body protection	:	Skin should be w	ashed after contact.
Hygie	ene measures	:	eye flushing syste king place. When using do ne	emical is likely during typical use, provide ems and safety showers close to the wor- ot eat, drink or smoke. ed clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: pellets, granules
Color	: white
Odor	: odorless
Odor Threshold	: No data available
рН	: No data available
Melting point/freezing point	: 608 °F / 320 °C

according to the OSHA Hazard Communication Standard



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	Initial b range	oiling point and boiling	:	No data available)
	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamm	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	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Density	,	:	2.1 - 2.2 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	
	Oxidizii	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Particle	e size	:	No data available)

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.

according to the OSHA Hazard Communication Standard



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Cond	itions to avoid	: None known.	
Incom	patible materials	: Oxidizing age	nts
Haza	rdous decompositio	n products	
Therr	nal decomposition	: Hydrogen fluo Carbonyl diflu Carbon dioxid Carbon mono	oride e

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.

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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Product:

Species	:	Rat
Application Route	:	oral (feed)
Remarks	:	No significant adverse effects were reported

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Persistence	and degradability		
No data avail	able		
Bioaccumula	ative potential		
No data avail	able		
Mobility in s	oil		
No data avail	able		
Other advers	e effects		
No data avail	able		

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

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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

Fluoropolymer

Trade secret

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.

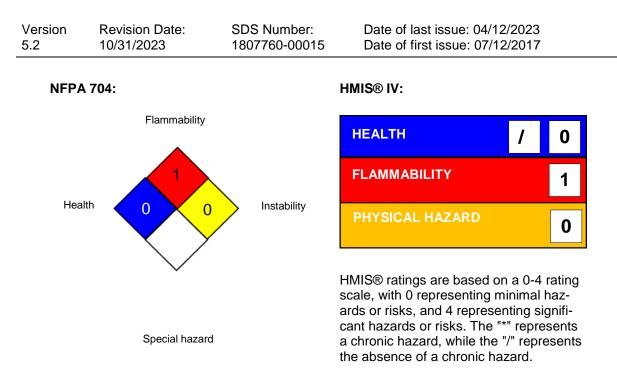
SECTION 16. OTHER INFORMATION

Further information

according to the OSHA Hazard Communication Standard



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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-

SAFETY DATA SHEET according to the OSHA Hazard Communication Standard



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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 compile the Material Safety	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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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