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SECTION	1. IDENTIFICATION					
Produ	ct name	:	DryFilm RA			
SDS-I	dentcode	:	130000008600			
Manu	facturer or supplier's	deta	iils			
Comp	any name of supplier	:	The Chemours Co	ompany FC, LLC		
Addre	Address		1007 Market Street Wilmington, DE 19899 United States of America (USA)			
Telepł	Telephone		1-844-773-CHEM (outside the U.S. 1-302-773-1000)			
Emerg	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)			
Recor	nmended use of the c	hen	nical and restriction	ons on use		
Recor	nmended use	:	Dry lubricant			
Restrie	ctions on use	:	tions involving imp internal body fluid written agreement	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 covering such use. For further information, ur Chemours representative.		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 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 : Mixture

Hazardous ingredients

No hazardous ingredients

SECTION 4. FIRST AID MEASURES



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	lf inhal	ed	:	If inhaled, remove Get medical atten	e to fresh air. tion 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.			
	Protect	ion of first-aiders	:	No special precau	itions are necessary for first aid responders.		
	Notes to physician		:	Treat symptomatically and supportively.			
SEC	TION 5	. FIRE-FIGHTING ME	ASL	JRES			
Suitable extinguishing media		:	Water spray Alcohol-resistant	foam			

		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 Carbon oxides potentially toxic fluorinated compounds aerosolized particulates
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.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Follow safe handling advice and personal protective

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		uipment and emer- procedures		equipment recom	mendations.	
Environmental precautions		:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). 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	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this m employed in the c determine which r Sections 13 and 1	absorbent material. Tovide diking or other appropriate ep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional 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 assessment 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.
I	Materials to avoid	:	No special restrictions on storage with other products.
	Recommended storage tem- perature	:	< 126 °F / < 52 °C
	Further information on stor- age stability	:	Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.



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Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrofluoric acid	7664-39-3	TWA	3 ppm 2.5 mg/m ³	NIOSH REL
		С	6 ppm 5 mg/m ³	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		ST	5 ppm 15 mg/m ³	NIOSH REL
		TWA	2 ppm 5 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	OSHA Z-1
		TWA	5,000 ppm 9,000 mg/m ³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
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/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

:

Respiratory 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 hazardous chemical is limited. Use a positive pressure air



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			release, exposure	or if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide ion.
Hand	protection			
Re	emarks	:	Wash hands befo	ore breaks and at the end of workday.
Eye p	Eye protection		Wear the following personal protective equipment: Safety glasses	
Skin a	Skin and body protection		: Skin should be washed after contact.	
Hygie	ene measures	:	located close to the When using do not	lushing systems and safety showers are he working place. ot eat, drink or smoke. red clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Color	:	white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	4 - 6
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	131 °F / 55 °C
Flash point	:	Method: Tag closed cup does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	301 hPa



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Re	lative vapor density	: No data availa	ble
Re	lative density	: 1.63	
So	lubility(ies) Water solubility	: insoluble	
	rtition coefficient: n- tanol/water	: Not applicable	
Au	toignition temperature	: No data availa	ble
De	composition temperature	: 572 °F / 300 °C	
Vis	cosity Viscosity, kinematic	: No data availa	ble
Ex	plosive properties	: Not explosive	
Ox	idizing properties	: The substance	or mixture is not classified as oxidizing.
Pa	rticle size	: Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	:	None known.
Incompatible materials	:	None.
Hazardous decomposition p	rod	ucts
Thermal decomposition	:	Hydrofluoric acid Carbonyl difluoride Carbon dioxide

Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact Ingestion Eye contact



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	Acute t	oxicity								
1	Not clas	ssified based on avai	ilable information.							
5	Skin corrosion/irritation									
1	Not clas	ssified based on avai	ilable information.							
		s eye damage/eye i								
		ssified based on avai								
F	Respira	atory or skin sensit	ization							
		ensitization								
-		ssified based on avai	ilable information.							
	-	atory sensitization ssified based on avai	ilable information.							
(Germ c	ell mutagenicity								
1	Not clas	ssified based on avai	ilable information.							
		ogenicity								
	Not clas I ARC		nt of this product prese	ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.						
(OSHA		ent of this product pres list of regulated carcine	ent at levels greater than or equal to 0.1% is ogens.						
I	NTP		nt of this product prese a known or anticipate	ent at levels greater than or equal to 0.1% is d carcinogen by NTP.						
	•	luctive toxicity								
1	Not classified based on available information.									
	STOT-single exposure									
		ssified based on avai	liable information.							
		epeated exposure ssified based on avai	ilable 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





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•	Other adverse effects No data available				
SECTION	SECTION 13. DISPOSAL CONSIDERATIONS				
•	osal methods te from residues	:	Dispose of in acc	ordance with local regulations.	
Cont	Contaminated packaging : Empty containers should be taken to an ap handling site for recycling or disposal. If not otherwise specified: Dispose of as ur		ecycling or disposal.		

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

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

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



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	1,1,1,2,2,3,4,5,5 Fluoropolymer Fluoropolymer	5-Decafluoropentane	138495-42-8 Trade secret Trade secret
Calife	nnia Prop. 65		

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Additional regulatory information

1,1,1,2,2,3,4,5,5,5-Decafluoropentane 138495-42-8

Decafluoropentane

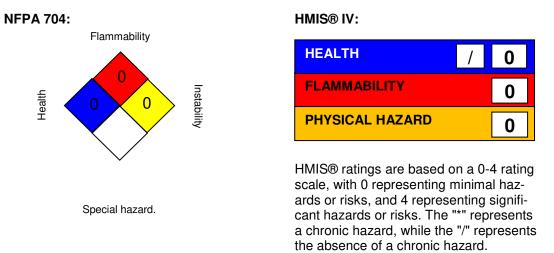
The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product.

See 40 CFR § 721.5645

This material contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D:

SECTION 16. OTHER INFORMATION

Further information



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

For further information contact the local Chemours office or nominated distributors. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

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



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NIOSH REL / TWA		: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek			
NIOSH REL / ST		: STEL - 15-mir	STEL - 15-minute TWA exposure that should not be exceeded		
NIOSH REL / C OSHA Z-1 / TWA OSHA Z-2 / TWA		: Ceiling value i : 8-hour time w	at any time during a workday Ceiling value not be exceeded at any time. 8-hour time weighted average 8-hour time weighted average		

AICS - Australian Inventory of Chemical Substances; 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; 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



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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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