

Versior 12.2	ו	Revision Date: 04/18/2022		DS Number: 27200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017			
SECTI	SECTION 1. IDENTIFICATION							
Pr	Product name		:	Vertrel™ MCA sp	ecialty fluid			
SI	SDS-Identcode		:	13000000634				
M	anufa	acturer or supplier's	deta	ails				
Co	Company name of supplier		:	The Chemours Company FC, LLC				
Ac	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)				
Τe	elepho	one	:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)				
Er	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)				
Re	Recommended use of the			nical and restriction	ons on use			
Re	ecomi	mended use	:	Cleaning agent				
Re	Restrictions on use		:	For professional and industrial installation and use only.				

### SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)								
Eye irritation	:	Category 2B						
Specific target organ toxicity - single exposure	:	Category 3						
GHS label elements								
Hazard pictograms	:							
Signal Word	:	Warning						
Hazard Statements	:	H320 Causes eye irritation. H336 May cause drowsiness or dizziness.						
Precautionary Statements	:	Prevention: P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. Response:						



Version 12.2	Revision Date: 04/18/2022	SDS Number: 1327200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017				
		and keep comfo unwell. P305 + P351 + for several minu to do. Continue	<ul> <li>P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and east to do. Continue rinsing.</li> <li>P337 + P313 If eye irritation persists: Get medical attention.</li> </ul>				
		Storage:	and and				
		P405 Store locked up.					
		Disposal:					
		P501 Dispose of contents and container to an approved disposal plant.					

### Other hazards

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Rapid evaporation of the product may cause frostbite.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
1,1,1,2,2,3,4,5,5,5-	138495-42-8	>= 50 - < 70
Decafluoropentane		
Trans-Dichloroethylene	156-60-5	>= 30 - < 50

Actual concentration is withheld as a trade secret

### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.



Version 12.2	Revision Date: 04/18/2022		DS Number: 27200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017				
lf swa	If swallowed		: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.					
	important symptoms ffects, both acute and ed	:	Skin contact may Dermatitis Irritation Pain superficial burning Itching Redness Swelling of tissue Rash Discomfort Eye contact may Pain tearing Swelling of tissue Redness Impairment of vis Inhalation may pr Unconsciousness Drowsiness Lack of coordinat confusion Dizziness Central nervous s Effects of breathin Tiredness Drowsiness central nervous s Convulsions Adverse effects fr central nervous s Aspiration may ca Causes eye irritat	provoke the following symptoms: g sensation provoke the following symptoms ion ovoke the following symptoms: ion system depression ng high concentrations of vapor may include: ystem effects om repeated inhalation may include ystem effects ause pulmonary edema and pneumonitis.				
Prote	Protection of first-aiders		and use the recor	ers should pay attention to self-protection, nmended personal protective equipment Il for exposure exists (see section 8).				
Notes to physician		:	: Because of possible disturbances of cardiac rhythm, ca- techolamine drugs, such as epinephrine, that may be use situations of emergency life support should be used with cial caution.					

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



Version 12.2	Revision Date: 04/18/2022		DS Number: 27200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017	
Unsu medi	iitable extinguishing a	:	None known.		
Spec fighti	ific hazards during fire ng	:	Exposure to combustion products may be a hazard to health.		
Haza ucts	Hazardous combustion prod- ucts		Hydrogen fluoride carbonyl fluoride Carbon oxides Chlorine compounds		
Spec ods	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		In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES		
tive e	Personal precautions, protec- tive equipment and emer- gency procedures		Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).		
Envir	Environmental precautions		<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Prevent spreading over a wide area (e.g., by containment of oil barriers).</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>		
	Methods and materials for containment and cleaning up		For large spills, pu ment to keep mat pumped, store red Clean up remaining bent.	t absorbent material. rovide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. ng materials from spill with suitable absor-	

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE
	CONTROLS/PERSONAL PROTECTION section.



### Vertrel<sup>™</sup> MCA specialty fluid

Ver: 12.2		Revision Date: 04/18/2022		0S Number: 27200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017	
	Local/Total ventilation		:	If sufficient ventilation is unavailable, use with local exhaust ventilation.		
	Advice on safe handling		:	Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safet 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		:	Do not expose drums to direct heat or temperature above 46°C (115°F) to avoid pressurizing and possibly distorting the drums. Material should not be dispensed by pouring from pail/drum shipping containers containing 5 gallons or more. The use of drum pump is recommended for dispensing from pail/drum shipping containers with 5 gallons or more, except for small containers where adequate ventilation can be used to mana the exposure. Keep in properly labeled containers. Store locked up. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.		
	Materials to avoid		:	No special restric	tions on storage with other products.	
	Recomi perature	mended storage tem- e	:	< 115 °F / < 46 °C		
	Further information on stor- age stability		:	The product has a	an indefinite shelf life when stored properly.	

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
1,1,1,2,2,3,4,5,5,5- Decafluoropentane	138495-42-8	TWA	225 ppm 2,320 mg/m <sup>3</sup>	US WEEL
		STEL	700 ppm 7,217 mg/m <sup>3</sup>	US WEEL
Trans-Dichloroethylene	156-60-5	TWA	200 ppm	ACGIH

### Engineering measures

: Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation.



Version 12.2	Revision Date: 04/18/2022		S Number: 27200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017				
Perso								
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 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.					
	protection							
	aterial ove thickness	:	Viton®					
	earing time	:	: 0.7 mm : 120 min					
Re	emarks	:	on the concentrat applications, we r micals of the afor manufacturer. Wa	protect hands against chemicals depending tion specific to place of work. For special recommend clarifying the resistance to che- ementioned protective gloves with the glove ash hands before breaks and at the end of trough time is not determined for the pro- ves often!				
Еуе р	protection	:	Wear the followin Safety goggles	g personal protective equipment:				
Skin a	and body protection	dy protection : Wear the following personal protective equip If assessment demonstrates that there is a ri atmospheres or flash fires, use flame retarda protective clothing.						
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	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES							

Appearance	: liquid
Color	: colorless
Odor	: ether-like
Odor Threshold	: No data available



Version 12.2	Revision Date: 04/18/2022		S Number: 27200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017
рН		:	No data available	9
Meltin	g point/freezing point	:	< -58.0 °F / < -50	.0 °C
Initial range	boiling point and boiling	:	102 °F / 39 °C (1,013 hPa)	
Flash	point	:	Method: Pensky- does not flash	Martens closed cup
Evapo	pration rate	:	No data available	)
Flamn	nability (solid, gas)	:	Not applicable	
Flamn	nability (liquids)	:	No data available	9
	explosion limit / Upper ability limit	:	Upper flammabili Method: ASTM E None.	
	explosion limit / Lower ability limit	:	Lower flammabili Method: ASTM E None.	ty limit 681
Vapor	pressure	:	216 hPa (32 °F /	0 °C)
			619 hPa (77 °F /	25 °C)
			1,481 hPa (122 °	F / 50 °C)
Relativ	ve vapor density	:	5.4	
Densit	ty	:	1.41 g/cm³ (77 °F	F / 25 °C)
			1.47 g/cm³ (32 °F	= / 0 °C)
			1.35 g/cm <sup>3</sup> (122 °	°F / 50 °C)
	ility(ies)			
Wa	ater solubility	:	15 g/l(77 °F / 25	5 °C)
	on coefficient: n- ol/water	:	Not applicable	
Autoig	nition temperature	:	No data available	
Decor	nposition temperature	:	No data available	)
Viscos Vis	sity cosity, dynamic	:	0.49 mPa.s (77 °	F / 25 °C)
Vis	cosity, kinematic	:	No data available	2



### Vertrel<sup>™</sup> MCA specialty fluid

Version	Revision Date:		S Number:	Date of last issue: 10/09/2021
12.2	04/18/2022	132	27200-00045	Date of first issue: 02/27/2017
Explo	sive properties	:	Not explosive	
Oxidi	zing properties	:	The substance of	or mixture is not classified as oxidizing.
Partic	cle size	:	Not applicable	
SECTION	10. STABILITY AND RI	EAC	ΤΙVITY	
Reac	tivity	:	Not classified as	a reactivity hazard.
Chem	nical stability	:	Stable under nor	mal conditions.
Possi	bility of hazardous reac-	:	None known.	

tions	
Conditions to avoid	: None known.
Incompatible materials	: None.
Hazardous decomposition products	: No hazardous decomposition products are known.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

#### Components:

### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 114 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg
Trans-Dichloroethylene:		
Acute oral toxicity	:	LD50 (Rat): 7,902 mg/kg Method: OECD Test Guideline 420
Acute inhalation toxicity	:	LC50 (Rat): 95.5 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403



ersion 2	Revision Date: 04/18/2022		S Number: 7200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017
			Lowest observe ppm Test atmospher	d adverse effect concentration (Dog): 25000
			Cardiac sensitis Test atmospher	ation threshold limit (Dog): 991,309 mg/m <sup>3</sup> e: gas
Acute	e dermal toxicity		LD50 (Rabbit): : Method: OECD	> 5,000 mg/kg Test Guideline 402
Skin	corrosion/irritation			
Not c	lassified based on ava	ailable in	nformation.	
<u>Com</u>	<u>oonents:</u>			
1,1,1,	2,2,3,4,5,5,5-Decaflu	oropen	tane:	
Speci		-	Rabbit	
Resu		:	No skin irritatior	1
	s-Dichloroethylene:			
Speci			Rabbit	
Metho Resul			OECD Test Gui Mild skin irritatio	
Serio	us eye damage/eye i	irritatio	n	
Cause	es eye irritation.			
Com	<u>oonents:</u>			
1,1,1,	2,2,3,4,5,5,5-Decaflu	oropen	tane:	
Speci		:	Rabbit	
Resu	lt	:	No eye irritation	
Trans	s-Dichloroethylene:			
Speci			Rabbit	
Resul Metho			OECD Test Gui	s, reversing within 7 days deline 405
Resp	iratory or skin sensi	tizatior	1	
Skin	sensitization			
Not c	lassified based on ava	ailable in	nformation.	
-	iratory sensitization			
Not c	lassified based on ava	ailable ir	nformation.	
Com	<u>oonents:</u>			
1,1,1,	2,2,3,4,5,5,5-Decaflu	oropen	tane:	
	es of exposure	-	Skin contact	

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative



rsion 2	Revision Date: 04/18/2022	SDS Number: 1327200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017
	ell mutagenicity ssified based on ava	ilable information.	
<u>Compo</u>	<u>nents:</u>		
	<b>2,3,4,5,5,5-Decaflud</b> ell mutagenicity - ment	-	idence does not support classification as a germ
Trans-E	Dichloroethylene:		
	xicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive
			hromosome aberration test in vitro CD Test Guideline 473 tive
Genoto	xicity in vivo	cytogenetic a Species: Mo Application F	use Route: Ingestion CD Test Guideline 474
Germ ce Assessr	ell mutagenicity - ment	: Weight of ev cell mutager	idence does not support classification as a germ .
Carcino	ogenicity		
	sified based on ava No ingredie	nt of this product pr	esent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.
OSHA		ent of this product p list of regulated car	resent at levels greater than or equal to 0.1% is cinogens.
			esent at levels greater than or equal to 0.1% is ated carcinogen by NTP.

### **Reproductive toxicity**

Not classified based on available information.

### Components:

### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Reproductive toxicity - As-	:	Weight of evidence does not support classification for repro-
sessment		ductive toxicity

### Trans-Dichloroethylene:



ersion 2.2	Revision Date: 04/18/2022	SDS Number: 1327200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017
Effects	on fetal development	Species: Rat Application Ro	D Test Guideline 414
	<b>single exposure</b> use drowsiness or diz	zziness.	
<u>Compo</u>	onents:		
<b>Trans-</b> Assess	Dichloroethylene: ment	: May cause dro	wsiness or dizziness.
	repeated exposure ssified based on avail	able information.	
Compo	onents:		
1,1,1,2	,2,3,4,5,5,5-Decafluo	ropentane:	
Assess	ment	: No significant tions of 1 mg/l	health effects observed in animals at concentr /6h/d or less.
Trans-	Dichloroethylene:		
Routes Assess	of exposure ment		health effects observed in animals at concentr mV/6h/d or less.
Routes Assess	of exposure ment		health effects observed in animals at concentr g/kg bw or less.
Repeat	ted dose toxicity		
Compo	onents:		
	,2,3,4,5,5,5-Decafluo	ropentane:	
Specie		: Rat	
NOAEL		: 15.463 mg/l	
LOAEL		: 3.6081 mg/l	or
	ition Route ire time	: inhalation (vap : 90 d	01)
Method		: OECD Test G	uideline 413
Remar			adverse effects were reported
Trans-	Dichloroethylene:		
Specie	-	: Rat, male and	female
NOAEL		: 4000 ppm	
LOAEL		: > 4000 ppm	
	tion Route	: Inhalation	
Exposi	ıre time	: 90 Days : OECD Test G	videline 440
Method			



/ersion I2.2	Revision Date: 04/18/2022		OS Number: 27200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017
	EL EL cation Route sure time		Rat, male and fer 3,210 mg/kg > 3,210 mg/kg Ingestion 98 Days OECD Test Guide	
-	r <b>ation toxicity</b> lassified based on availa	able	information.	
ECTION	12. ECOLOGICAL INFO	ORI	ATION	
Ecote	oxicity			
<u>Com</u>	ponents:			
1,1,1	,2,2,3,4,5,5,5-Decafluor	оре	entane:	
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 96	hus mykiss (rainbow trout)): 13.9 mg/l 5 h
			LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 27.2 mg/l 5 h
			LC50 (Danio reric Exposure time: 96	o (zebra fish)): 13 mg/l S h
	ity to daphnia and other tic invertebrates	:	LC50 (Daphnia m Exposure time: 48	agna (Water flea)): 11.7 mg/l 3 h
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokire mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 120 2 h
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia i Exposure time: 2 <sup>-</sup>	nagna (Water flea)): 1.72 mg/l I d
Trans	s-Dichloroethylene:			
	ity to fish	:	LC50 (Lepomis m	acrochirus (Bluegill sunfish)): 135 mg/l

	•	Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 220 mg/l Exposure time: 48 h Method: EPA-660/3-75-009
Toxicity to algae/aquatic plants	:	EbC50 (Pseudokirchneriella subcapitata (green algae)): 36.36 mg/l Exposure time: 48 h Method: OECD Test Guideline 201



Versio 12.2	n Revision Date: 04/18/2022		DS Number: 327200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017			
Pe	Persistence and degradability						
<u>C</u> (	Components:						
1,	1,1,1,2,2,3,4,5,5,5-Decafluoropentane:						
Bi	Biodegradability		Result: Not readily biodegradable.				
Tr	ans-Dichloroethylene:						
Bi	Biodegradability		Result: not rapidly degradable Method: OECD Test Guideline 301D				
Bioaccumulative potential							
Components:							
1,	1,1,1,2,2,3,4,5,5,5-Decafluoropentane:						
Bioaccumulation : Remarks: Bioaccumulation is un		umulation is unlikely.					
Tr	ans-Dichloroethylene:						
	artition coefficient: n- ctanol/water	:	log Pow: 2.06				
М	obility in soil						
N	o data available						
0	Other adverse effects						
No data available							
SECTION 13. DISPOSAL CONSIDERATIONS							
Di	isposal methods						
W	aste from residues	:	Dispose of in acc	ordance with local regulations.			
C	ontaminated nackaging		Empty containers	should be taken to an approved waste			

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.



Version 12.2	Revision Date: 04/18/2022	 S Number: 27200-00045	Date of last issue: 10/09/2021 Date of first issue: 02/27/2017
Dome	stic regulation		
Domestic regulation 49 CFR UN/ID/NA number Proper shipping name Class Packing group Labels ERG Code Marine pollutant Remarks		(Trans-Dichlor 9 III CLASS 9 171 no THE ABOVE IN SIZES WHERE	y hazardous substance, liquid, n.o.s. oethylene) NFORMATION ONLY APPLIES TO PACKAGE THE HAZARDOUS SUBSTANCE MEETS

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Trans-Dichloroethylene	156-60-5	1000	2642

### 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	:	Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)
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		
1,1,1,2,2,3,4,5,5,5-Decafluoropentane		138495-42-8
Trans-Dichloroethylene		156-60-5
1,2-Butylene oxide		106-88-7
California List of Hazardous Substances		
Trans-Dichloroethylene		156-60-5
International Regulations		
Montreal Protocol	:	1,1,1,2,2,3,4,5,5,5- Decafluoropentane



Version	Revision Date:	SDS Number:	Date of last issue: 10/09/2021
12.2	04/18/2022	1327200-00045	Date of first issue: 02/27/2017

#### Additional regulatory information

1,1,1,2,2,3,4,5,5,5-

138495-42-8

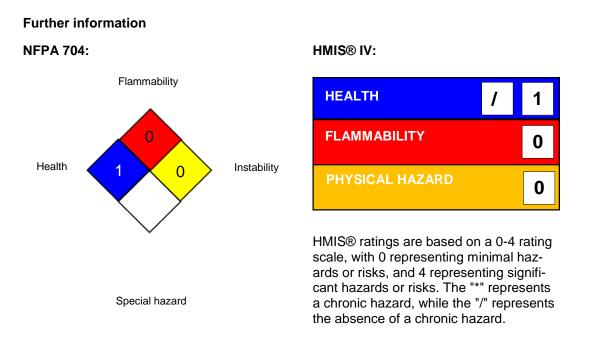
Decafluoropentane

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**



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Chemours <sup>™</sup> 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.

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average
US WEEL / STEL	:	Short term exposure limit
US WEEL / TWA	:	8-hr TWA

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 Haz-



Version	Revision Date:	SDS Number:	Date of last issue: 10/09/2021
12.2	04/18/2022	1327200-00045	Date of first issue: 02/27/2017

ardous 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 Amend-ments 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

: 04/18/2022

Revision Date

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