according to the OSHA Hazard Communication Standard



# Freon™ 410A (R-410A) Refrigerant

Vers 13.0		Revision Date: 05/13/2024		DS Number: 336443-00053	Date of last issue: 10/19/2023 Date of first issue: 02/27/2017			
SEC	SECTION 1. IDENTIFICATION							
	Product name		:	: Freon™ 410A (R-410A) Refrigerant				
	SDS-Id	entcode	:	130000050990	13000050990			
	Manufacturer or supplier's		deta	ails				
	Company name of supplier		:	The Chemours C	ompany FC, LLC			
	Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)				
	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 (outsid the U.S. +1-703-527-3887)				
	Recommended use of the o		hen	nical and restriction	ons on use			
	Recom	mended use	:	Refrigerant				
	Restrictions on use		:	For professional	users only.			

### SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)					
Gases under pressure	:	Liquefied gas			
Simple Asphyxiant					
GHS label elements					
Hazard pictograms	:				
Signal Word	:	Warning			
Hazard Statements	:	H280 Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.			
Precautionary Statements	:	<b>Storage:</b> P410 + P403 Protect from sunlight. Store in a well-ventilated place.			

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### 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)
Pentafluoroethane#	354-33-6	50
Difluoromethane#	75-10-5	49.9997

# Voluntarily-disclosed substance

### 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
In case of skin contact		Thaw frosted parts with lukewarm water. Do not rub affected area. Get medical attention immediately.
In case of eye contact	:	Get medical attention immediately.
If swallowed		Ingestion is not considered a potential route of exposure.
Most important symptoms and effects, both acute and delayed	:	May cause cardiac arrhythmia. Other symptoms potentially related to misuse or inhalation abuse are Cardiac sensitization Anaesthetic effects Light-headedness Dizziness confusion Lack of coordination Drowsiness Unconsciousness May displace oxygen and cause rapid suffocation. Gas reduces oxygen available for breathing. Contact with liquid or refrigerated gas can cause cold burns and frostbite.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.

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Not	Notes to physician		Because of possible disturbances of cardiac rhythm, ca- techolamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with spe- cial caution.		
SECTIO	N 5. FIRE-FIGHTING ME	ASL	JRES		
Suit	able extinguishing media	:	Not applicable Will not burn		
Uns	suitable extinguishing dia	:	Not applicable Will not burn		
•	Specific hazards during fire fighting			pustion products may be a hazard to health. rises there is danger of the vessels bursting por pressure.	
Haz	zardous combustion prod-	:	Fluorine compour Carbon oxides Hydrogen fluoride carbonyl fluoride		
Spe ods	cific extinguishing meth-	:	cumstances and f Fight fire remotely Use water spray t	measures that are appropriate to local cir- he surrounding environment. due to the risk of explosion. o cool unopened containers. ged containers from fire area if it is safe to do	
	ecial protective equipment fire-fighters	:	necessary.	ed breathing apparatus for firefighting if rective equipment.	

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Evacuate personnel to safe areas. Avoid skin contact with leaking liquid (danger of frostbite). Ventilate the area. 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.
Methods and materials for containment and cleaning up	:	Ventilate the area. Local or national regulations may apply to releases and dispo- sal of this material, as well as those materials and items em- ployed in the cleanup of releases. You will need to determine which regulations are applicable.

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			and 15 of this SDS provide information regarding or national requirements.			
SECTION	7. HANDLING AND ST	ORAGE				
Techi	nical measures	preventative	Use equipment rated for cylinder pressure. Use a backflow preventative device in piping. Close valve after each use and when empty.			
Local	/Total ventilation	: Use only with	adequate ventilation.			
Advice on safe handling		Handle in acc practice, bas sessment Wear cold ins Valve protect remain in pla piped to use Prevent back Use a check Use a check Use a pressu to lower pres Close valve a or force fit co Prevent the in Never attemp Do not drag, Use a suitabl Keep away fr Take precaut	Avoid breathing gas. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Wear cold insulating gloves/ face shield/ eye protection. Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point. Prevent backflow into the gas tank. Use a check valve or trap in the discharge line to prevent ha- zardous back flow into the cylinder. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems. Close valve after each use and when empty. Do NOT change or force fit connections. Prevent the intrusion of water into the gas tank. Never attempt to lift cylinder by its cap. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the			
Cond	itions for safe storage	vent falling ou Separate full Do not store Avoid area w Keep in prop Keep in a coo Keep away fr	build be stored upright and firmly secured to pre- r being knocked over. containers from empty containers. near combustible materials. here salt or other corrosive materials are present. erly labeled containers. bl, well-ventilated place. fom direct sunlight. rdance with the particular national regulations.			
Materials to avoid			ents quids olids quids			

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Versio 13.0	on Revision Date: 05/13/2024		DS Number: 36443-00053	Date of last issue: 10/19/2023 Date of first issue: 02/27/2017		
			Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases Explosives Very acutely toxic substances and mixtures Acutely toxic substances and mixtures Substances and mixtures with chronic toxicity			
	Recommended storage tem- perature	:	< 126 °F / < 52 °C	2		
S	Storage period	:	> 10 y			
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
Pentafluoroethane	354-33-6	TWA	1,000 ppm	US WEEL
Difluoromethane	75-10-5	TWA	1,000 ppm	US WEEL

Engineering measures

: 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 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.	
Hand protection Material	Low temperature resistant gloves	
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	

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			workday. Breakth duct. Change glo	rough time is not determined for the pro- ves often!		
Eye protection		:	Wear the following personal protective equipment: Chemical resistant goggles must be worn. Face-shield			
Skin and body protection		:	Skin should be washed after contact.			
Protective measures		:	Wear cold insulating gloves/ face shield/ eye protection.			
Hygiene measures		:	eye flushing syste king place. When using do no	emical is likely during typical use, provide ems and safety showers close to the wor- ot eat, drink or smoke. red clothing before re-use.		

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquefied gas
Color	:	colorless
Odor	:	slight, ether-like
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	-60.9 °F / -51.6 °C (1,013 hPa)
Flash point	:	Not applicable
Evaporation rate	:	> 1 (CCL4=1.0)
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	Upper flammability limit Method: ASTM E681 None.
Lower explosion limit / Lower flammability limit	:	Lower flammability limit Method: ASTM E681 None.

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	Vapor p	pressure	:	16,530 hPa (77 °	F / 25 °C)
				30,520 hPa (122	°F / 50 °C)
	Relative	e vapor density	:	2.5	
	Relative	e density	:	1.06 (77 °F / 25 °	°C)
	Density	,	:	1.062 g/cm³ (77 (as liquid)	°F / 25 °C)
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	ition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle Particle	e characteristics e size	:	Not applicable	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	This substance is not flammable in air at temperatures up to 100 °C (212 °F) at atmospheric pressure. However, mixtures of this substance with high concentrations of air at elevated pressure and/or temperature can become combustible in the presence of an ignition source. This substance can also become combustible in an oxygen enriched environment (oxygen concentrations greater than that in air). Whether a mixture containing this substance and air, or this substance in an oxygen enriched atmosphere become combustible depends on

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		and 3) the substance mospheric enriched er NOT be mi purposes.	lationship of 1) the temperature 2) the pressure, proportion of oxygen in the mixture. In general, this should not be allowed to exist with air above at- pressure or at high temperatures; or in an oxygen hvironment. For example this substance should exed with air under pressure for leak testing or other es and sparks.
Inco	ompatible materials	: Oxidizing a	gents
	ardous decomposition ducts	: No hazardo	ous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation Skin contact Eye contact

### Acute toxicity

Not classified based on available information.

#### **Components:**

#### Pentafluoroethane:

Acute inhalation toxicity		LC50 (Rat): > 800000 ppm Exposure time: 4 h Test atmosphere: gas Method: OECD Test Guideline 403
		No observed adverse effect concentration (Dog): 75000 ppm Remarks: Cardiac sensitization
		Cardiac sensitisation threshold limit (Dog): 368.159 mg/m <sup>3</sup> Remarks: Cardiac sensitization
Difluoromethane:		
Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	LC50 (Rat): > 520000 ppm Exposure time: 4 h Test atmosphere: gas Method: OECD Test Guideline 403
		No observed adverse effect concentration (Dog): 350000 ppm Test atmosphere: gas Remarks: Cardiac sensitization

Lowest observed adverse effect concentration (Dog): > 350000 ppm

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		Test atmosphe Remarks: Car	ere: gas diac sensitization
		Test atmosphe	isation threshold limit (Dog): > 735,000 mg/m³ ere: gas diac sensitization
Acute	e dermal toxicity	: Assessment: <sup>-</sup> toxicity	The substance or mixture has no acute dermal
Not c	corrosion/irritation classified based on ava ponents:	ilable information.	
Diflu	oromethane:		
Resu		: No skin irritatio	on
Not c <u>Com</u>	bus eye damage/eye classified based on ava ponents:		
<b>Diflu</b> Resu	oromethane: Ilt	: No eye irritatio	on
Resp	piratory or skin sensi	tization	
-	sensitization	ailable information.	
	<b>biratory sensitization</b> classified based on ava	ailable information.	
<u>Com</u>	ponents:		
Diflu	oromethane:		
Route Resu	es of exposure Ilt	: Skin contact : negative	
	n cell mutagenicity classified based on ava	ilable information.	
<u>Com</u>	ponents:		
Pent	afluoroethane:		
Geno	otoxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 ve
		Result: negati	vitro mammalian cell gene mutation test ve ed on data from similar materials

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rsion .0	Revision Date: 05/13/2024	SDS Number:Date of last issue: 10/19/20231336443-00053Date of first issue: 02/27/2017
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Geno	toxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: inhalation (gas) Method: OECD Test Guideline 474 Result: negative
Diflue	promethane:	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Geno	toxicity in vivo	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</li> <li>Species: Mouse</li> <li>Application Route: inhalation (gas)</li> <li>Method: OECD Test Guideline 474</li> <li>Result: negative</li> </ul>
	cell mutagenicity -	: Weight of evidence does not support classification as a germ cell mutagen.
II Carci	nogenicity	
	lassified based on a No ingre	ailable information. ent of this product present at levels greater than or equal to 0.1% is as probable, possible or confirmed human carcinogen by IARC.
OSH		nent of this product present at levels greater than or equal to 0.1% is s list of regulated carcinogens.
NTP		ent of this product present at levels greater than or equal to 0.1% is as a known or anticipated carcinogen by NTP.
-	oductive toxicity lassified based on a	ailable information.
Com	<u>oonents:</u>	
	afluoroethane:	
	ts on fertility	<ul> <li>Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapor) Result: negative</li> </ul>

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/ersion 13.0	Revision Date: 05/13/2024		9S Number: 36443-00053	Date of last issue: 10/19/2023 Date of first issue: 02/27/2017
II			Remarks: Based of	on data from similar materials
Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD Te Result: negative	
Difluo	promethane:			
Effects	s on fertility	:	Species: Mouse Application Route Result: negative Remarks: Based of	: Inhalation on data from similar materials
Effects	s on fetal development	:		
Repro sessm	ductive toxicity - As- ient	:	Weight of evidenc ductive toxicity	e does not support classification for repro-
	-single exposure isplace oxygen and cau	ise r	apid suffocation.	
-	onents:		•	
Difluo	oromethane:			
	s of exposure sment	:	inhalation (gas) No significant hea tions of 20000 ppr	Ith effects observed in animals at concentra- nV/4h or less
	-repeated exposure assified based on availa	able	information.	
_	onents:			
	promethane:			
	s of exposure sment	:	inhalation (gas) No significant hea tions of 250 ppm∿	Ith effects observed in animals at concentra- //6h/d or less.

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### Repeated dose toxicity

### **Components:**

### Pentafluoroethane:

Species	: Rat
Species NOAEL Application Route	: >= 50000 ppm
Application Route	: inhalation (gas)
Exposure time Method	: 13 Weeks
Method	: OECD Test Guideline 413

### **Difluoromethane:**

Species	: Rat, male and female
NOAEL	: 49100 ppm
LOAEL	: > 49100 ppm
Application Route	: inhalation (gas)
Exposure time	: 13 Weeks
Species NOAEL LOAEL Application Route Exposure time Method	: OECD Test Guideline 413

### Aspiration toxicity

Not classified based on available information.

### **Components:**

#### Difluoromethane:

No aspiration toxicity classification

### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

### Components:

### Pentafluoroethane:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 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)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials NOEC (Pseudokirchneriella subcapitata (green algae)): > 1
		mg/l Exposure time: 72 h Method: OECD Test Guideline 201

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		Remarks: Based	on data from similar materials
<b>promethane:</b> ty to fish	:	Exposure time: 96	
ty to daphnia and other c invertebrates	:	Exposure time: 48	
ty to algae/aquatic	:	Exposure time: 96	
stence and degradabili	ty		
oonents:			
fluoroethane: gradability	:	Biodegradation: Exposure time: 28	5 %
promethane:			
gradability	:		y biodegradable. est Guideline 301D
cumulative potential			
onents:			
fluoroethane: on coefficient: n- ol/water	:		est Guideline 107
oromethane: on coefficient: n- ol/water	:	log Pow: 0.714	
<b>ity in soil</b> ta available <b>adverse effects</b> ta available			
	eromethane: ty to fish ty to daphnia and other c invertebrates ty to algae/aquatic stence and degradabilit conents: fluoroethane: gradability eromethane: gradability cumulative potential conents: fluoroethane: gradability cumulative potential conents: fluoroethane: on coefficient: n- ol/water eromethane: on coefficient: n- ol/water eromethane: on coefficient: n- ol/water	promethane:   ty to fish   ty to daphnia and other   c invertebrates   ty to algae/aquatic : Stence and degradability conents: fluoroethane: gradability : cumulative potential conents: fluoroethane: gradability : cumulative potential conents: fluoroethane: on coefficient: n- : conents: fluoroethane: on coefficient: n- : in coefficient: n- : : in coefficient: n- : <p< td=""><td>Remarks: Based of the second secon</td></p<>	Remarks: Based of the second secon

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### **SECTION 13. DISPOSAL CONSIDERATIONS**

<b>Disposal methods</b> 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. Empty pressure vessels should be returned to the supplier. If not otherwise specified: Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

<b>UNRTDG</b> UN number Proper shipping name	:	UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane, Difluoromethane)	
Class Packing group Labels	:	2.2 Not assigned by regulation 2.2	
Environmentally hazardous	:	no	
UN/ID No. Proper shipping name	:	UN 3163 Liquefied gas, n.o.s. (Pentafluoroethane, Difluoromethane)	
Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	::	2.2 Not assigned by regulation Non-flammable, non-toxic Gas 200 200	
IMDG-Code			
UN number Proper shipping name	:	UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane, Difluoromethane)	
Class Packing group Labels EmS Code Marine pollutant	: : : :	2.2 Not assigned by regulation 2.2 F-C, S-V no	
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		
UN/ID/NA number	:	UN 3163
Proper shipping name	:	Liquefied gas, n.o.s.
		(Pentafluoroethane, Difluoromethane)

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Labels ERG (	-	:	2.2 Not assigned by NON-FLAMMAB 126 no	

### 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**

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	: Gases under Simple Asph	
SARA 313	known CAS	I does not contain any chemical components with numbers that exceed the threshold (De Minimis) els established by SARA Title III, Section 313.
US State Regulations		
Pennsylvania Right To Kno	w	
Pentafluoroethane		354-33-6
Difluoromethane		75-10-5
California List of Hazardous	s Substances	
Difluoromethane		75-10-5
International Regulations		
Montreal Protocol		: Pentafluoroethane Difluoromethane

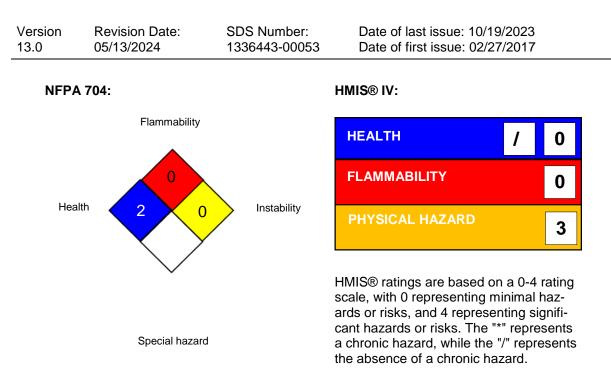
#### **SECTION 16. OTHER INFORMATION**

Further information

according to the OSHA Hazard Communication Standard



### Freon<sup>™</sup> 410A (R-410A) Refrigerant



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

### Full text of other abbreviations

US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
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 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 sub-

according to the OSHA Hazard Communication Standard



### Freon<sup>™</sup> 410A (R-410A) Refrigerant

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

Revision Date : 05/13/2024

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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