

# Freon™ 410A (R-410A) Refrigerant

Version 12.2	Revision Date: 04/21/2023	•••	DS Number: 336443-00051	Date of last issue: 12/05/2022 Date of first issue: 02/27/2017	
SECTIO	N 1. IDENTIFICATION				
Pro	duct name	:	Freon™ 410A (R	-410A) Refrigerant	
SDS	S-Identcode	:	130000050990		
Mar	ufacturer or supplier's	deta	ails		
Con	Company name of supplier		The Chemours C	ompany FC, LLC	
Add	Address		1007 Market Stre Wilmington, DE 1	et 9801 United States of America (USA)	
Tele	Telephone		1-844-773-CHEM (outside the U.S. 1-302-773-1000)		
Eme	Emergency telephone			cy: 1-866-595-1473 (outside the U.S. 1-302- nsport emergency: +1-800-424-9300 (outside 527-3887)	
Rec	ommended use of the	cher	nical and restriction	ons on use	
Rec	ommended use	:	Refrigerant		
Res	trictions on use	:	For professional	users only.	

## SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200)	lan	ce with the OSHA Hazard Communication Standard (29 CFR
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	50

# 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 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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Note	Notes to physician		techolamine drugs	ble disturbances of cardiac rhythm, ca- s, such as epinephrine, that may be used in gency life support should be used with spe-
SECTION	5. FIRE-FIGHTING ME	ASL	JRES	
Suita	ble extinguishing media	:	Not applicable Will not burn	
Unsu medi	itable extinguishing a	:	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.
Haza ucts	rdous combustion prod-	:	Fluorine compour Carbon oxides Hydrogen fluoride carbonyl fluoride	
Spec ods	ific extinguishing meth-	:	cumstances and t Fight fire remotely Use water spray t	measures that are appropriate to local cir- he surrounding environment. due to the risk of explosion. cool unopened containers. ged containers from fire area if it is safe to do
	ial protective equipment e-fighters	:	Wear self-contain necessary. Use personal prot	ed breathing apparatus for firefighting if ective 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. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



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SECTION	7. HANDLING AND ST	 DRAGE				
Tech	nical measures	: 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.				
Advic	e on safe handling	<ul> <li>Avoid breathing gas. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>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.</li> <li>Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.</li> <li>Use a pressure reducing regulator when connecting cylinder to lower pressure (&lt;3000 psig) piping or systems.</li> <li>Close valve after each use and when empty. Do NOT change or force fit connections.</li> <li>Prevent the intrusion of water into the gas tank.</li> <li>Never attempt to lift cylinder by its cap.</li> <li>Do not drag, slide or roll cylinders.</li> <li>Use a suitable hand truck for cylinder movement.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges.</li> <li>Take care to prevent spills, waste and minimize release to th environment.</li> </ul>	- e			
Cond	litions for safe storage	<ul> <li>Cylinders should be stored upright and firmly secured to prevent falling or being knocked over.</li> <li>Separate full containers from empty containers.</li> <li>Do not store near combustible materials.</li> <li>Avoid area where salt or other corrosive materials are preser</li> <li>Keep in properly labeled containers.</li> <li>Keep in a cool, well-ventilated place.</li> <li>Keep away from direct sunlight.</li> <li>Store in accordance with the particular national regulations.</li> </ul>				
Mate	rials to avoid	<ul> <li>Do not store with the following product types: Self-reactive substances and mixtures Organic peroxides Oxidizing agents</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures which in contact with water emit flammable gases</li> <li>Explosives</li> <li>Very acutely toxic substances and mixtures</li> </ul>				



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			,	stances and mixtures nixtures with chronic toxicity
	ecommended storage tem- erature	:	< 126 °F / < 52 °C	
St	orage period	:	> 10 y	
	urther information on stor- ge 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 workday. Breakthrough time is not determined for the pro- duct. Change gloves often!
Eye protection	:	Wear the following personal protective equipment: Chemical resistant goggles must be worn. Face-shield



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	Skin and body protection		:	Skin should be washed after contact.				
	Protective measures		:	: Wear cold insulating gloves/ face shield/ eye protection.				
Hygiene mea		e 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.				
SEC	TION 9.	PHYSICAL AND CHE	EMI		3			
	Appear	ance	:	Liquefied gas				
	Color		:	colorless				
	Odor		:	slight, ether-like				
	Odor Th	hreshold	:	No data available	9			
	pН		:	No data available	)			
	Melting	point/freezing point	:	No data available				
	Initial bo range	oiling point and boiling	:	-60.9 °F / -51.6 °( (1,013 hPa)	C			
	Flash p	oint	:	Not applicable				
	Evapora	ation rate	:	> 1 (CCL4=1.0)				
	Flamma	ability (solid, gas)	:	Will not burn				
		explosion limit / Upper bility limit	:	Upper flammabili Method: ASTM E None.				
		explosion limit / Lower bility limit	:	Lower flammabili Method: ASTM E None.				
	Vapor p	pressure	:	16,530 hPa (77 °	F / 25 °C)			
				30,520 hPa (122	°F / 50 °C)			
	Relative	e vapor density	:	2.5				



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Re	lative density	: 1.06 (77 °F / 25 °C)				
Density		: 1.062 g/cm³ (77 °F / 25 °C) (as liquid)				
Solubility(ies) Water solubility		: No data available				
Partition coefficient: n- octanol/water		: Not applicable				
Au	toignition temperature	: No data available				
De	composition temperature	: No data available				
	cosity Viscosity, kinematic	: Not applicable				
Ex	olosive 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 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 the inter-relationship of 1) the temperature 2) the pressure, and 3) the proportion of oxygen in the mixture. In general, this substance should not be allowed to exist with air above atmospheric pressure or at high temperatures; or in an oxygen enriched environment. For example this substance should NOT be mixed with air under pressure for leak testing or other purposes.
	Incompatible materials		Ovidizing agents

Incompatible materials : Oxidizing agents



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Haza produ	rdous decomposition	: No haza	dous decomposition products are known.
SECTION	11. TOXICOLOGICAL	INFORMATIO	1
Inhala Skin o Eye c	contact contact	s of exposure	
	<b>e toxicity</b> lassified based on avai	able informatior	۱.
Com	oonents:		
	afluoroethane: inhalation toxicity	Exposure Test atmo	t): > 800000 ppm time: 4 h osphere: gas DECD Test Guideline 403
			ved adverse effect concentration (Dog): 75000 ppm Cardiac sensitization
			ensitisation threshold limit (Dog): 368.159 mg/m³ Cardiac sensitization
Diflue	promethane:		
Acute	e oral toxicity	: Assessme icity	ent: The substance or mixture has no acute oral tox-
Acute	inhalation toxicity	Exposure Test atmo	t): > 520000 ppm time: 4 h osphere: gas DECD Test Guideline 403
		Test atmo	ved adverse effect concentration (Dog): 350000 ppm osphere: gas Cardiac sensitization
		350000 p Test atmo	oserved adverse effect concentration (Dog): > pm osphere: gas Cardiac sensitization
		Test atmo	ensitisation threshold limit (Dog): > 735,000 mg/m³ osphere: gas Cardiac sensitization
Acute	e dermal toxicity	: Assessme toxicity	ent: The substance or mixture has no acute dermal



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-	Skin corrosion/irritation Not classified based on available information.								
Components:									
<b>Diflu</b> Resu	oromethane: lt	:	No skin irritation						
Serious eye damage/eye irritation Not classified based on available information.									
Com	ponents:								
<b>Diflu</b> Resu	oromethane: It	:	No eye irritation						
Resp	iratory or skin sensi	tizatio	n						
•••••	<b>sensitization</b> lassified based on ava	ilable	information.						
<b>Respiratory sensitization</b> Not classified based on available information. <u>Components:</u>									
					Diflu	oromethane:			
Route Resu	es of exposure It	:	Skin contact negative						
<b>Germ cell mutagenicity</b> Not classified based on available information.									
Com	ponents:								
Penta	afluoroethane:								
Geno	toxicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative	ial reverse mutation assay (AMES) est Guideline 471					
			Result: negative	o mammalian cell gene mutation test on data from similar materials					
			Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473					
Genc	toxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD To Result: negative	: inhalation (gas)					



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Difluo	promethane:					
Genot	oxicity 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				
Genotoxicity 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				
	cell mutagenicity - sment	: Weight of evidence does not support classification as a germ cell mutagen.				
Carci	nogenicity					
Not cla IARC		ble information. of this product present at levels greater than or equal to 0.1% is robable, possible or confirmed human carcinogen by IARC.				
OSHA	<b>SHA</b> No component of this product present at levels greater than or equal to 0 on OSHA's list of regulated carcinogens.					
NTP		t of this product present at levels greater than or equal to 0.1% is a known or anticipated carcinogen by NTP.				
Repro	ductive toxicity					
Not cla	assified based on avail	able information.				
<u>Comp</u>	onents:					
Penta	fluoroethane:					
Effects	s on fertility	<ul> <li>Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapor) Result: negative Remarks: Based on data from similar materials</li> </ul>				
Effect	s on fetal development					
Encot		Species: Rat Application Route: inhalation (gas) Method: OECD Test Guideline 414 Result: negative				
Difluc	romethane:					
Effects	s on fertility	<ul> <li>Species: Mouse Application Route: Inhalation Result: negative Remarks: Based on data from similar materials</li> </ul>				



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Effects on fetal development			reproduction/dev Species: Rat Application Rout	pined repeated dose toxicity study with the relopmental toxicity screening test e: inhalation (gas) Fest Guideline 414
			reproduction/dev Species: Rabbit Application Rout	bined repeated dose toxicity study with the relopmental toxicity screening test e: inhalation (gas) Fest Guideline 414
Repro sessm	ductive toxicity - As- nent	:	Weight of eviden ductive toxicity	ce does not support classification for repro-
Not cl	-single exposure assified based on availa ponents:	ble	information.	
Route	oromethane: s of exposure ssment	:	inhalation (gas) No significant he tions of 20000 pp	alth effects observed in animals at concentromV/4h or less
<b>STOT-repeated exposure</b> Not classified based on available information.				
<u>Comp</u>	oonents:			
Difluc	promethane:			
	s of exposure sment	:	inhalation (gas) No significant he tions of 250 ppm	alth effects observed in animals at concentr V/6h/d or less.
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Penta	fluoroethane:			
	EL cation Route sure time	:	Rat >= 50000 ppm inhalation (gas) 13 Weeks OECD Test Guid	leline 413
Diflue	promethane:			
Speci		:	Rat, male and fe	male
NOAE	EL	:	49100 ppm > 49100 ppm	
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Expos	Application Route Exposure time Method		: inhalation (gas) : 13 Weeks : OECD Test Guideline 413					
Not cl	ation toxicity assified based on availa conents:	ble	information.					
Diflue	promethane: piration toxicity classification	atio	ı					
SECTION	12. ECOLOGICAL INFO	DRN	IATION					
Ecoto	oxicity							
Com	oonents:							
	<b>afluoroethane:</b> ity to fish	:	Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l ን h on data from similar materials				
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h on data from similar materials				
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T					
			mg/l Exposure time: 72 Method: OECD T					
Diflue	promethane:							
Toxic	ity to fish	:	LC50 (Fish): 1,50 Exposure time: 96 Method: ECOSAF ships)					
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia): Exposure time: 48 Method: ECOSAF ships)					
Toxic plants	ity to algae/aquatic	:	Exposure time: 96					



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			ships)				
Persi	stence and degrada	bility					
<u>Com</u>	oonents:						
Penta	afluoroethane:						
Biodegradability		:	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 5 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301D</li> </ul>				
Difluc	promethane:						
Biodegradability		:	: Result: Not readily biodegradable. Method: OECD Test Guideline 301D				
Bioad	cumulative potentia	al					
Com	oonents:						
Penta	afluoroethane:						
	on coefficient: n- ol/water	:		Test Guideline 107			
Difluc	promethane:						
Partiti	on coefficient: n- ol/water	:	log Pow: 0.714				
Mobil	lity in soil						
	ita available						
Other	adverse effects						
No da	ita available						

# Disposal methodsWaste from residues: Dispose of in accordance with local regulations.

	1	0
Contaminated packaging	handling site Empty pressu	ners should be taken to an approved waste for recycling or disposal. Ire vessels should be returned to the supplier. se specified: Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

UNRTDG
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UN number	:	UN 3163
Proper shipping name	:	LIQUEFIED GAS, N.O.S.



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Packi Label IATA- UN/IE Prope Class Packi Label Packi aircra	Class Packing group Labels IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen-		(Pentafluoroethane, Difluoromethane) 2.2 Not assigned by regulation 2.2 UN 3163 Liquefied gas, n.o.s. (Pentafluoroethane, Difluoromethane) 2.2 Not assigned by regulation Non-flammable, non-toxic Gas 200	
ger aircraft) <b>IMDG-Code</b> UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant <b>Transport in bulk according</b> Not applicable for product as s			2.2 Not assigned by 1 2.2 F-C, S-V no Annex II of MARF	ne, Difluoromethane) regulation
	estic regulation			

<b>49 CFR</b> UN/ID/NA number Proper shipping name	:	UN 3163 Liquefied gas, n.o.s. (Pentafluoroethane, Difluoromethane)
Class	:	2.2
Packing group	:	Not assigned by regulation
Labels	:	NON-FLAMMABLE GAS
ERG Code	:	126
Marine pollutant	:	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

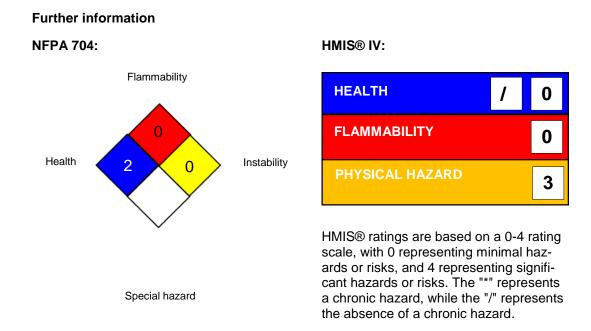
This material does not contain any components with a section 304 EHS RQ.





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	•		es Threshold Planning Quantity ts with a section 302 EHS TPQ.				
SA	ARA 311/312 Hazards	: Gases und Simple Asp	•				
SA	ARA 313	known CAS	al does not contain any chemical components with 6 numbers that exceed the threshold (De Minimis) vels established by SARA Title III, Section 313.				
US	S State Regulations						
Pe	ennsylvania Right To Kno	ow					
	Pentafluoroethane Difluoromethane	9	354-33-6 75-10-5				
Ca	California List of Hazardous Substances						
	Difluoromethane		75-10-5				
Int	ternational Regulations						
M	ontreal Protocol		: Pentafluoroethane Difluoromethane				

## **SECTION 16. OTHER INFORMATION**



Freon<sup>™</sup> and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.

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.



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#### 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 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

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/

Revision Date

: 04/21/2023

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# Freon™ 410A (R-410A) Refrigerant

	of last issue: 12/05/2022 of first issue: 02/27/2017
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