

Freon[™] 95 (R-508B) Refrigerant

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2023
11.4	23.05.2024	1326632-00050	Date of first issue: 27.02.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

I.I FIOUL	ict identifier					
Trade	e name	:	Freon™ 95 (R-508B) Refrigerant			
SDS	Identcode	:	13000000550			
1.2 Relev	ant identified uses of th	ne s	ubstance or mixture and uses advised against			
	of the Sub- ce/Mixture	:	Refrigerant			
Recc on us		:	For professional users only.			
1.3 Detail	1.3 Details of the supplier of the safety data sheet					
Com	pany	:	Chemours Netherlands B.V. Baanhoekweg 22			
			3313 LA Dordrecht Netherlands			
Teleŗ	bhone	:				
Teler Telef		:	3313 LA Dordrecht Netherlands			

1.4 Emergency telephone number

+(353)-19014670 (CHEMTREC - Recommended) ; +353-(01) 809 2166 (Poison Information Center of Ireland)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Gases under pressure, Liquefied gas

H280: Contains gas under pressure; may explode if heated.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Haza	rd pictograms	:	\diamond	
Signa	al word	:	Warning	
Haza	rd statements	:	H280	Contains gas under pressure; may explode if heated.
Preca	autionary statements	:	Storage: P410 + P40	3 Protect from sunlight. Store in a well-ventilated place.

Additional Labelling

Contains fluorinated greenhouse gases. (PFC-116, HFC-23)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Vapours 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.

May displace oxygen and cause rapid suffocation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Perfluoroethane	76-16-4	Press. Gas Liquefied	54
	200-939-8	gas; H280	
	01-2119974606-26		
Trifluoromethane#	75-46-7	Press. Gas Liquefied	46
	200-872-4	gas; H280	
	01-2119971823-29		



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For explanation of abbreviations see section 16. # Voluntarily-disclosed substance

SECTION 4: First aid measures

4.1 D	escription of first aid measu	res	;	
(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.	
F	Protection of first-aiders	:	No special precautions are necessary for first aid responders.	
I	f inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	
I	n case of skin contact	:	Thaw frosted parts with lukewarm water. Do not rub affected area. Get medical attention immediately.	
I	n case of eye contact	:	Get medical attention immediately.	
I	fswallowed	:	Ingestion is not considered a potential route of exposure.	
4.2 M	4.2 Most important symptoms and effects, both acute and delayed			
5	Symptoms	:	May cause cardiac arrhythmia.	
			Other symptoms potentially related to misuse or inhalation abuse are Cardiac sensitisation Anaesthetic effects Light-headedness Dizziness confusion Lack of coordination Drowsiness Unconsciousness	
F	Risks	:	Gas reduces oxygen available for breathing. Contact with liquid or refrigerated gas can cause cold burns and frostbite.	
4.3 In	dication of any immediate m	ed	lical attention and special treatment needed	
7	Freatment	:	Because of possible disturbances of cardiac rhythm, cate- cholamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with spe- cial caution.	



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Not applicable Will not burn
Unsuitable extinguishing media	:	Not applicable Will not burn

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Hazardous combustion prod- ucts	:	Hydrogen fluoride carbonyl fluoride Carbon oxides
Advice for firefighters		

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 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).

6.2 Environmental precautions

Environmental precautions	: Avoid re	elease to the environment.
	Prevent	further leakage or spillage if safe to do so.
	Retain a	and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Ventilate the area.
		Local or national regulations may apply to releases and dis-



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		employed in the mine which reg Sections 13 and	aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

•••		,	
	Technical 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.
	Advice on safe handling	:	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 haz- ardous 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 environment.
	Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Cylinders should be stored upright and firmly secured to pre-
areas and containers		vent falling or being knocked over. Separate full containers
		from empty containers. Do not store near combustible materi-

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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				present. Keep in well-ventilated pla	here salt or other corrosive materials are properly labelled containers. Keep in a cool, ace. Keep away from direct sunlight. Store in the particular national regulations.
Advice on common storage		:	 Do not store with the following product types: Self-reactive substances and mixtures Organic peroxides Oxidizing agents Flammable liquids Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which in contact with water, em flammable gases Explosives Very acutely toxic substances and mixtures Acutely toxic substances and mixtures Substances and mixtures 		
	Storage	e period	:	> 10 yr	
	Recom peratur	mended storage tem- e	 < 52 °C The product has an indefinite shelf life when stored prop 		
	Further age sta	r information on stor- ability			an indefinite shelf life when stored properly.
7.3 S	Specific	c end use(s)			
	Specifi	c use(s)	:	No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

	· ·	0 0	· · /	
Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
Trifluoromethane	Workers	Inhalation	Long-term systemic effects	1439 mg/m3
	Consumers	Inhalation	Long-term systemic effects	358 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Perfluoroethane	Fresh water	0.038 mg/l

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		Marine water		0.004 mg/l
		Intermittent us	se/release	0.375 mg/l
		Fresh water s	ediment	0.679 mg/kg dry weight (d.w.)
		Marine sedim	ent	0.068 mg/kg dry weight (d.w.)
		Soil		0.071 mg/kg dry weight (d.w.)
Triflue	oromethane	Fresh water		0.155 mg/l
		Marine water		0.016 mg/l
		Intermittent us	se/release	1.545 mg/l
		Fresh water s	ediment	0.665 mg/kg dry weight (d.w.)
		Marine sedim	ent	0.067 mg/kg dry weight (d.w.)
		Soil		0.043 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment						
Eye/face protection	:	Wear the following personal protective equipment: Chemical resistant goggles must be worn. Face-shield Equipment should conform to I.S. EN 166				
Hand protection Material	:	Low temperature resistant gloves				
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufactur- er. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often!				
Skin and body protection	:	Skin should be washed after contact.				
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387				
Filter type	:	Organic gas and low boiling vapour type (AX)				
Protective measures	:	Wear cold insulating gloves/ face shield/ eye protection.				



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	
Colour	:	colourless
Odour	:	slight, ether-like
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	-87.6 °C (1,013 hPa)
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.
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable
Solubility(ies) Water solubility	:	No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Partitio octano	n coefficient: n- I/water	:	Not applicable	
N	Vapour	rpressure	:	36,568 hPa (10 °	°C)
I	Relativ	e density	:	0.76 (10 °C)	
				1.15 (25 °C)	
I	Density	/	:	0.943 g/cm³ (0 ° (as liquid)	C)
ł	Relativ	e vapour density	: No data available		e
I		e characteristics ticle size	:	Not applicable	
)ther ir Explosi	nformation ives	:	Not explosive	
(Oxidizi	ng properties	:	The substance of	or mixture is not classified as oxidizing.
I	Evapor	ration rate	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Can react with strong oxidizing agents.
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10.4 Conditions to avoid

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		of this sub pressure a presence come come gen conce containing gen enrich the inter-ru and 3) the substance mospheric enriched e NOT be m purposes.	12 °F) at atmospheric pressure. However, mixtures stance with high concentrations of air at elevated and/or temperature can become combustible in the of an ignition source. This substance can also be- abustible in an oxygen enriched environment (oxy- entrations greater than that in air). Whether a mixture this substance and air, or this substance in an oxy- ned atmosphere become combustible depends on elationship of 1) the temperature 2) the pressure, proportion of oxygen in the mixture. In general, this e should not be allowed to exist with air above at- pressure or at high temperatures; or in an oxygen environment. For example this substance should nixed with air under pressure for leak testing or other these and sparks.
10.5 Inco	mpatible materials		
Mate	rials to avoid	: Oxidizing	agents
11.1 Infor	mation on likely routes	sses as defined	in Regulation (EC) No 1272/2008
слр с		Eye contac	
Acut	e toxicity		
Not c	lassified based on avai	lable information.	
<u>Com</u>	ponents:		
	uoroethane: e inhalation toxicity	Exposure t Test atmos	
		Test atmos	ed adverse effect concentration (Dog): 200000 ppm sphere: gas Cardiac sensitisation
		200000 pp Test atmos	served adverse effect concentration (Dog): > m sphere: gas Cardiac sensitisation
		Cardiac co	nsitisation threshold limit (Dog): > 1 129 943 5

Cardiac sensitisation threshold limit (Dog): > 1,129,943.5

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			mg/m3 Test atmosphere Remarks: Cardia				
Triflu	oromethane:						
Acute			: LC50 (Rat): > 663000 ppm Exposure time: 4 h Test atmosphere: gas Method: OECD Test Guideline 403				
			No observed adv Test atmosphere	erse effect concentration (Dog): 500000 ppm : gas			
			Lowest observed 500000 ppm Test atmosphere	adverse effect concentration (Dog): > : gas			
			Cardiac sensitisa mg/m3 Test atmosphere	tion threshold limit (Dog): > 1,430,000 : gas			
Not c	corrosion/irritation lassified based on ava						
	lassified based on ava						
Resp	iratory or skin sensi	tisatior	ı				
-	sensitisation lassified based on ava	ailable ir	nformation.				
-	iratory sensitisation lassified based on ava		nformation.				
	n cell mutagenicity lassified based on ava	ilahla i					
	ponents:		normation.				
	uoroethane:						
	toxicity in vitro			rial reverse mutation assay (AMES) est Guideline 471			
				nosome aberration test in vitro Test Guideline 473			
Genc	toxicity in vivo		cytogenetic assay Species: Rat	nalian erythrocyte micronucleus test (in vivo y) e: inhalation (gas)			



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			Method: OECD Result: negative	Test Guideline 474 e			
Germ sessr	n cell mutagenicity- As- ment	:	Weight of evide cell mutagen.	nce does not support classification as a germ			
Triflu	oromethane:						
Genotoxicity in vitro		:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative				
				tro mammalian cell gene mutation test Test Guideline 476 e			
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse Application Rou	e ite: inhalation (gas) Test Guideline 474			
Germ	cell mutagenicity- As-	:	-	nce does not support classification as a germ			
sessr	nent		cell mutagen.				
Carci	nent inogenicity lassified based on avai	lable	-				
Carci Not c Repre	inogenicity		information.				
Carci Not c Repro	inogenicity lassified based on avai oductive toxicity		information.				
Carci Not c Repro Not c <u>Com</u>	inogenicity lassified based on avai oductive toxicity lassified based on avai		information.				
Carci Not c Repro Not c <u>Com</u>	inogenicity lassified based on avai oductive toxicity lassified based on avai ponents:		information. information. Test Type: Con reproduction/de Species: Rat Application Rou	nbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) Test Guideline 422			
Carci Not c Repro Not c Com Perflu Effect	inogenicity lassified based on avai oductive toxicity lassified based on avai ponents: uoroethane: ts on fertility ts on foetal develop-		information. information. Test Type: Con reproduction/de Species: Rat Application Rou Method: OECD Result: negative Test Type: Con reproduction/de Species: Rat Application Rou	evelopmental toxicity screening test ute: inhalation (gas) Test Guideline 422 e hbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) Test Guideline 422			

Trifluoromethane:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Effect ment	s on foetal develop-	S A M	pecies: Rat pplication Route	al development toxicity study (teratogenicity) : inhalation (gas) est Guideline 414
	- single exposure assified based on avail	able inf	ormation.	
<u>Com</u>	oonents:			
Perflu	uoroethane:			
•	sure routes ssment	: N	halation (gas) o significant hea ons of 20000 ppr	Ith effects observed in animals at concentra- nV/4h or less
Triflu	oromethane:			
Expos	sure routes ssment	: N	halation (gas) o significant hea ons of 20000 ppr	Ith effects observed in animals at concentra- nV/4h or less
	- repeated exposure lassified based on avail	able inf	ormation.	
Com	oonents:			
Perflu	uoroethane:			
	sure routes ssment	: N	halation (gas) o significant hea ons of 250 ppm√	Ith effects observed in animals at concentra- //6h/d or less.
Triflu	oromethane:			
	sure routes ssment	: N	halation (gas) o significant hea ons of 250 ppm√	Ith effects observed in animals at concentra- //6h/d or less.
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
Perflu	uoroethane:			
	EL EL cation Route	: 50 : >{ : in	at, male and fen 0000 ppm 50000 ppm halation (gas)	nale
Metho	sure time od		3 Days ECD Test Guide	line 422
Triflu	oromethane:			
Speci	es	: R	at, male and fer	nale
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	_	: 10000 ppm : > 10000 ppm : inhalation (gas) : 90 Days	

Aspiration toxicity

Not classified based on available information.

:

Components:

Trifluoromethane:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:		
Perfluoroethane:		
Toxicity to fish	:	LC50 (Fish): 82.3 mg/l Exposure time: 96 h Method: ECOSAR (Ecological Structure Activity Relation- ships)
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia sp. (water flea)): 47.4 mg/l Exposure time: 48 h Method: ECOSAR (Ecological Structure Activity Relation- ships)
Toxicity to algae/aquatic plants	:	EC50 (green algae): 37.5 mg/l Exposure time: 96 h Method: ECOSAR (Ecological Structure Activity Relation- ships)
Ecotoxicology Assessment Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
—		

Trifluoromethane:



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Tc	oxicity to fish	:	LC50 (Fish): 633. Exposure time: 96 Method: ECOSAF ships)	
	oxicity to daphnia and other juatic invertebrates	:	Exposure time: 48	o. (water flea)): 323.05 mg/l 3 h R (Ecological Structure Activity Relation-
	oxicity to algae/aquatic ants	:	Exposure time: 96	
12.2 Pe	ersistence and degradabil	ity		
<u>Co</u>	omponents:			
	e rfluoroethane: odegradability	:		y biodegradable. on data from similar materials
	ifluoromethane: odegradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials
12.3 Bi	ioaccumulative potential			
<u>Co</u>	omponents:			
	erfluoroethane: oaccumulation	:	Remarks: Bioacci	umulation is unlikely.
	artition coefficient: n- tanol/water	:	log Pow: 2.15	
Pa	ifluoromethane: artition coefficient: n- tanol/water	:	log Pow: 0.84	
	obility in soil o data available			
12.5 R	esults of PBT and vPvB as	sse	ssment	
	oduct: ssessment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or id very bioaccumulative (vPvB) at levels of
			15 / 20	

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12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Components:

Perfluoroethane:

Additional ecological infor-	:	No data available
mation		

Global warming potential

Regulation (EU) No 517/2014 on fluorinated greenhouse gases

Product:

100-year global warming potential: 13,396

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling 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

14.1 UN number or ID number

ADN	:	UN 1078
ADR	:	UN 1078
RID	:	UN 1078
IMDG	:	UN 1078
ΙΑΤΑ	:	UN 1078



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14.2	2 UN pr	oper shipping name			
	ADN		:		GAS, N.O.S. Trifluoromethane)
	ADR		:	REFRIGERANT ((Perfluoroethane,	GAS, N.O.S. Trifluoromethane)
	RID		:	REFRIGERANT ((Perfluoroethane,	GAS, N.O.S. Trifluoromethane)
	IMDG		:	REFRIGERANT ((Perfluoroethane,	GAS, N.O.S. Trifluoromethane)
	ΙΑΤΑ		:	Refrigerant gas, r (Perfluoroethane,	n.o.s. Trifluoromethane)
14.3	3 Trans	port hazard class(es)			
				Class	Subsidiary risks
	ADN		:	2	2.2
	ADR		:	2	2.2
	RID		:	2	2.2, (13)
	IMDG		:	2.2	
	ΙΑΤΑ		:	2.2	
14.4	4 Packi	ng group			
	Classi	ng group fication Code d Identification Number	:	Not assigned by r 2A 20 2.2	egulation
	Classit Hazaro Labels	ng group fication Code d Identification Number s I restriction code	:	Not assigned by r 2A 20 2.2 (C/E)	egulation
	Classi	ng group fication Code d Identification Number	:	Not assigned by r 2A 20 2.2 ((13))	egulation
	IMDG Packir Labels EmS (:	Not assigned by r 2.2 F-C, S-V	egulation
		(Cargo) ng instruction (cargo t)	:	200	
		ng group	:	Not assigned by r	egulation



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	Labels		:	Non-flammable, r	non-toxic Gas
	•	Passenger) g instruction (passen- craft)	:	200	
	•	g group	:	Not assigned by I Non-flammable, r	
14.	5 Enviro	onmental hazards			
	ADN Enviror	nmentally hazardous	:	no	
	ADR Enviro	nmentally hazardous	:	no	
	RID Enviroi	nmentally hazardous	:	no	
	IMDG Marine	pollutant	:	no	

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). Regulation (EC) No 1005/2009 on substances that deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollutants (recast) Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals REACH - List of substances subject to authorisation (Annex XIV) Not applicable 	REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
plete the ozone layer		:	Not applicable
tants (recast)Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicalsNot applicableREACH - List of substances subject to authorisation: Not applicable	•	:	Not applicable
ment and the Council concerning the export and import of dangerous chemicals REACH - List of substances subject to authorisation : Not applicable		• :	Not applicable
, , , , , , , , , , , , , , , , , , , ,	ment and the Council concerning the export and import		Not applicable
	•	:	Not applicable



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances.

SECTION 16: Other information

Other information :	 Freon[™] and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. 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. Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements	
H280 :	Contains gas under pressure; may explode if heated.
Full text of other abbreviation	

Full text of other abbreviations

Press. Gas

: Gases under pressure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office



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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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Classification procedure:

Based on product data or assessment

Classification of the mixture:

Press. Gas Liquefied gas H280

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.

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