according to Regulation (EC) No. 1907/2006



Freon™ 407C (R-407C) Refrigerant

Version

8.8

Revision Date:

10.09.2018

SDS Number: 1326421-00039

Date of last issue: 20.06.2018 Date of first issue: 27.02.2017

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

1.1 Product identifier

Trade name

: Freon™ 407C (R-407C) Refrigerant

SDS-Identcode

130000000517

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-

: Refrigerant

stance/Mixture

Recommended restrictions

on use

: For professional users only.

1.3 Details of the supplier of the safety data sheet

Company

Chemours Netherlands B.V.

Baanhoekweg 22

3313 LA Dordrecht Netherlands

Telephone

: +31-(0)-78-630-1011

Telefax

: +31-78-6163737

E-mail address of person responsible for the SDS

: sds-support@chemours.com

1.4 Emergency telephone number

+(44)-870-8200418 (CHEMTREC - Recommended)

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)

Hazard pictograms

Signal word

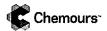
Warning

Hazard statements

....

H280 Contains gas under pressure; may explode if heated.

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Precautionary statements

Storage:

P410 + P403 Protect from sunlight. Store in a well-ventilated

place.

Additional Labelling

Contains fluorinated greenhouse gases. (HFC-134a, HFC-125, HFC-32)

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1,1,1,2-Tetrafluoroethane*	811-97-2 212-377-0 01-2119459374-33	Press. Gas Liquefied gas; H280	52
Pentafluoroethane*	354-33-6 206-557-8 01-2119485636-25	Press. Gas Liquefied gas; H280	25
Difluoromethane*	75-10-5 200-839-4 01-2119471312-47	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	23

^{*} Voluntarily-disclosed non-hazardous substance

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.

Protection of first-aiders

No special precautions are necessary for first aid responders.

according to Regulation (EC) No. 1907/2006



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If inhaled

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

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.

4.2 Most important symptoms and effects, both acute and delayed

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

Risks

Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

Treat symptomatically and supportively.

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.

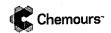
Hazardous combustion prod- :

ucts

Hydrogen fluoride carbonyl fluoride

Carbon oxides
Fluorine compounds

according to Regulation (EC) No. 1907/2006



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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 methods

Use extinguishing measures that are appropriate to local circumstances 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 and personal protective equip-

ment recommendations.

6.2 Environmental precautions

Environmental precautions

Prevent further leakage or spillage if safe to do so. Retain 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 disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or 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

: Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

according to Regulation (EC) No. 1907/2006



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sessment

Wear cold insulating gloves/ face shield/ eye protection.

Prevent backflow into the gas tank.

Open the valves slowly to prevent pressure surges.

Close valve after each use and when empty. Do NOT change

or force fit connections.

Prevent the intrusion of water into the gas tank. 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.

Avoid breathing gas.

Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet

piped to use point.

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.

Never attempt to lift cylinder by its cap. Do not drag, slide or roll cylinders.

Use a suitable hand truck for cylinder movement.

Hygiene measures

Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Separate full containers from empty containers. Do not store near combustible materials. Avoid area where salt or other corrosive materials are present. Keep in properly labelled containers. Keep in a cool, well-ventilated place. Keep away from direct sunlight. Store in accordance with 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, emit

flammable gases

Explosives

Acutely toxic substances and mixtures Substances and mixtures with chronic toxicity

Storage period

> 10 yr

according to Regulation (EC) No. 1907/2006



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Recommended storage tem-

perature

: < 52 °C

Further information on stor-

age stability

: The product has an indefinite shelf life when stored properly.

7.3 Specific end use(s)

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
1,1,1,2-	811-97-2	TWA	1,000 ppm	GB EH40
Tetrafluoroethane			4,240 mg/m3	
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

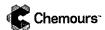
Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
1,1,1,2- Tetrafluoroethane	Workers	Inhalation	Long-term systemic effects	13936 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2476 mg/m3
Pentafluoroethane	Workers	Inhalation	Long-term systemic effects	16444 mg/m3
	Consumers	Inhalation	Long-term systemic effects	1753 mg/m3
Difluoromethane	Workers	Inhalation	Long-term systemic effects	7035 mg/m3
-	Consumers	Inhalation	Long-term systemic effects	750 mg/m3

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

Substance name	Environmental Compartment	Value
1,1,1,2-Tetrafluoroethane	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Intermittent use/release	1 mg/l
	Fresh water sediment	0.75 mg/kg dry weight (d.w.)
	Sewage treatment plant	73 mg/l
Pentafluoroethane	Fresh water	0.1 mg/l
	Intermittent use/release	1 mg/l
. :	Fresh water sediment	0.6 mg/kg
Difluoromethane	Fresh water	0.142 mg/l

according to Regulation (EC) No. 1907/2006



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Intermittent use/release 1.42 mg/l
Fresh water sediment 0.534 mg/kg

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection

Wear the following personal protective equipment:

Chemical resistant goggles must be worn.

Face-shield

Hand protection

Material

Low temperature resistant gloves

Remarks

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals 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 product. Change

gloves often!

Skin and body protection

Skin should be washed after contact.

Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type

Organic gas and low boiling vapour type (AX)

Protective measures

Wear cold insulating gloves/ face shield/ eye protection.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Liquefied gas

Colour

colourless

Odour

slight, ether-like

Odour Threshold

No data available

pΗ

No data available

Melting point/freezing point

Initial boiling point and boiling : -43.6 °C

No data available

according to Regulation (EC) No. 1907/2006



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range

Flash point

: Not applicable

Evaporation rate

: Not applicable

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.

Vapour pressure

: 11,903 hPa (25 °C)

Relative vapour density

: No data available

Relative density

: 1.14 (25 °C)

Density

1.136 g/cm3 (25 °C)

(as liquid)

Solubility(ies)

Water solubility

: No data available

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature

685 °C

Decomposition temperature

No data available

Viscosity

Viscosity, kinematic

Not applicable

Explosive properties

: Not explosive

Oxidizing properties

The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size

: Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

according to Regulation (EC) No. 1907/2006



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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.

10.4 Conditions to avoid

Conditions to avoid

: Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid

Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure

Skin contact

Eye contact

Acute toxicity

Not classified based on available information.

Components:

1,1,1,2-Tetrafluoroethane:

Acute inhalation toxicity

LC50 (Rat): > 567000 ppm

Exposure time: 4 h Test atmosphere: gas

No observed adverse effect concentration (Dog): 40000 ppm

Test atmosphere: gas

Symptoms: Cardiac sensitisation

Lowest observed adverse effect concentration (Dog): 80000

ppm

Test atmosphere: gas

Symptoms: Cardiac sensitisation

Cardiac sensitisation threshold limit (Dog): 334,000 mg/m3

Test atmosphere: gas

Symptoms: Cardiac sensitisation

Pentafluoroethane:

Acute inhalation toxicity

LC0 (Rat): > 800000 ppm

Exposure time: 4 h Test atmosphere: gas

according to Regulation (EC) No. 1907/2006



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Method: OECD Test Guideline 403

Difluoromethane:

Acute inhalation toxicity

LC50 (Rat): > 520000 ppm

Exposure time: 4 h
Test atmosphere: gas

Lowest observed adverse effect concentration (Dog): >

350000 ppm

Symptoms: Cardiac sensitisation

No observed adverse effect concentration (Dog): 350000 ppm

Symptoms: Cardiac sensitisation

Cardiac sensitisation threshold limit (Dog): > 735,000 mg/m3

Symptoms: Cardiac sensitisation

Skin corrosion/irritation

Not classified based on available information.

Components:

1,1,1,2-Tetrafluoroethane:

Species

Rabbit

Result

No skin irritation

Difluoromethane:

Species

Not tested on animals

Result

No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

1,1,1,2-Tetrafluoroethane:

Species

Rabbit

Result

No eye irritation

Difluoromethane:

Species Result Not tested on animals

No eye irritation

Respiratory or skin sensitisation

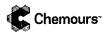
Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



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Components:

1,1,1,2-Tetrafluoroethane:

Exposure routes Species

outes

Skin contact Guinea pig negative

Species Result

Result

Rat negative

Difluoromethane:

Exposure routes

Skin contact

Species Result Not tested on animals

negative

Species

Not tested on animals

Result : negative

Germ cell mutagenicity

Not classified based on available information.

Components:

1,1,1,2-Tetrafluoroethane:

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Pentafluoroethane:

Genotoxicity in vitro

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

Difluoromethane:

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Carcinogenicity

Not classified based on available information.

Components:

1,1,1,2-Tetrafluoroethane:

Carcinogenicity - Assess-

ment

Weight of evidence does not support classification as a car-

cinogen

according to Regulation (EC) No. 1907/2006



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Reproductive toxicity

Not classified based on available information.

Components:

1,1,1,2-Tetrafluoroethane:

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

Pentafluoroethane:

Effects on fertility

Test Type: One-generation reproduction toxicity study

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (gas) Method: OECD Test Guideline 414

Result: negative

Difluoromethane:

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity, Based on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

1,1,1,2-Tetrafluoroethane:

Assessment

No significant health effects observed in animals at concentra-

tions of 250 ppmV/6h/d or less.

Difluoromethane:

Assessment

No significant health effects observed in animals at concentra-

tions of 250 ppmV/6h/d or less.

Repeated dose toxicity

Components:

1,1,1,2-Tetrafluoroethane:

Species

Rat

NOAEL

50000 ppm

LOAEL

> 50000 ppm

according to Regulation (EC) No. 1907/2006



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Application Route

Exposure time

inhalation (gas) 90 d

Method

OECD Test Guideline 413

Remarks

No significant adverse effects were reported

Pentafluoroethane:

Species

Rat

NOAEL

>= 50000 ppm

Application Route

inhalation (gas) 13 Weeks

Exposure time Method

OECD Test Guideline 413

Difluoromethane:

Species

Rat

NOAEL

49100 ppm

Application Route

inhalation (gas)

Exposure time

90 d

Remarks

No significant adverse effects were reported

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Toxicity to fish

1,1,1,2-Tetrafluoroethane:

LC50 (Oncorhynchus mykiss (rainbow trout)): 450 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 980 mg/l

Exposure time: 48 h

Toxicity to algae

ErC50 (algae): 142 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 13.2

mg/l

Exposure time: 72 h

Remarks: Based on data from similar materials

Pentafluoroethane:

Toxicity to fish

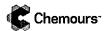
LC50 (Oncorhynchus mykiss (rainbow trout)): 450 mg/l

Exposure time: 96 h

Method: Directive 67/548/EEC, Annex V, C.1. Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 980 mg/l

according to Regulation (EC) No. 1907/2006



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aquatic invertebrates

Exposure time: 48 h

Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials

Toxicity to algae

EC50 (Pseudokirchneriella subcapitata (green algae)): > 114

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 13.2

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Difluoromethane:

Toxicity to fish

LC50 (Fish): 1,507 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): 652 mg/l

Exposure time: 48 h

Toxicity to algae

EC50 (algae): 142 mg/l

Exposure time: 96 h

Toxicity to fish (Chronic tox-

icity)

NOEC: 65.8 mg/l

Exposure time: 30 d

Species: Fish

12.2 Persistence and degradability

Components:

1,1,1,2-Tetrafluoroethane:

Biodegradability

: Result: Not readily biodegradable.

Pentafluoroethane:

Biodegradability

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Difluoromethane:

Biodegradability

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301D

according to Regulation (EC) No. 1907/2006



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12.3 Bioaccumulative potential

Components:

1,1,1,2-Tetrafluoroethane:

Partition coefficient: n-

octanol/water

: log Pow: 1.06

Pentafluoroethane:

Partition coefficient: n-

octanol/water

: Pow: 1.48 (25 °C)

Difluoromethane:

Partition coefficient: n-

octanol/water

: log Pow: 0.714

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).. This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB)..

12.6 Other adverse effects

Global warming potential

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

Product:

100-year global warming potential: 1.774

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.

according to Regulation (EC) No. 1907/2006



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SECTION 14: Transport information

14.1 UN number

ADN

UN 3340

ADR

UN 3340

RID

UN 3340

IMDG

UN 3340

IATA

UN 3340

14.2 UN proper shipping name

ADN

: REFRIGERANT GAS R407C

ADR

REFRIGERANT GAS R407C

RID

REFRIGERANT GAS R407C

IMDG

REFRIGERANT GAS R 407C

IATA

Refrigerant gas R 407C

14.3 Transport hazard class(es)

ADN

2

ADR

2

RID

2

IMDG

2.2

IATA

2.2

14.4 Packing group

ADN

Packing group

Not assigned by regulation

Classification Code

2A

Hazard Identification Number :

20

Labels

2.2

ADR

Packing group

Not assigned by regulation

Classification Code Hazard Identification Number

2A 20

Labels

2.2

Tunnel restriction code

(C/E)

RID

Packing group

Not assigned by regulation

Classification Code

2A

Hazard Identification Number Labels

20 2.2 ((13))

IMDG

Packing group

Not assigned by regulation

Labels **EmS Code** 2.2

F-C, S-V

according to Regulation (EC) No. 1907/2006



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IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing group

Labels

Not assigned by regulation Non-flammable, non-toxic Gas

IATA (Passenger)

Packing instruction (passen-

ger aircraft)

Packing group Labels

200

200

Not assigned by regulation Non-flammable, non-toxic Gas

14.5 Environmental hazards

ADN

Environmentally hazardous

no

ADR

Environmentally hazardous

no

Environmentally hazardous

no

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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).

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - Restrictions on the manufacture, placing on

Not applicable

according to Regulation (EC) No. 1907/2006



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the market and use of certain dangerous substances, preparations and articles (Annex XVII)

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

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rights 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

H220

Extremely flammable gas.

H280

Contains gas under pressure; may explode if heated.

Full text of other abbreviations

Flam. Gas

: Flammable gases

Press. Gas

Gases under pressure

GB EH40

UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA

Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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

according to Regulation (EC) No. 1907/2006



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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 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; 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 compile the 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/

Classification of the mixture:

Classification procedure:

Press. Gas Liquefied gas

H280

Based on product data or assessment

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.

GB / EN