

Version 3.0 Revision Date 23.11.2012

Ref. 130000033955

This SDS adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

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

1.1. Product identifier

Product name	: DuPont [™] ISCEON [®] MO49 Plus [™] (R-437A) refrigerant
Types	: ASHRAE Refrigerant number designation: R-437A
Synonyms	: ISCEON MO49+ MO49+ MO49 Plus R-437A

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

Use of the Substance/Mixture Refrigerant

1.3. Details of the supplier of the safety data sheet

Company	:	Du Pont de Nemours (Nederland) B.V. Baanhoekweg 22 NL-3313 LA Dordrecht Netherlands
Telephone	:	+31-78-630.1011

E-mail address : sds-support@che.dupont.com

1.4. Emergency telephone number

Emergency telephone number : +44-(0)8456-006.640

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2. Label elements

Special labelling of certain substances and mixtures	Safety data sheet available for professional user on request.
	Contains: 1,1,1,2-Tetrafluoroethane, Pentafluoroethane / Contains fluorinated greenhouse gas covered by the Kyoto Protocol., HFC-134a, HFC-125

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.3. Other hazards



Version 3.0 Revision Date 23.11.2012

Ref. 130000033955

Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Rapid evaporation of the liquid may cause frostbite.

Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects. May cause cardiac arrhythmia.

SECTION 3: Composition/information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Registration number	Classification according Directive 67/548/EEC	Classification according Regulation 1272/2008 (CLP)	Concentration
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1,1,1,2-Tetrafluoroethane (CAS-No.811-97-2) (EC-No.212-377-0)

01-2119459374-33	Press. Gas H280	>= 75 - <= 85 %

Pentafluoroethane (CAS-No.354-33-6) (EC-No.206-557-8)

01-2119485636-25	Press. Gas H280	>= 15 - <= 25 %

Butane (<0.1% butadiene) (CAS-No.106-97-8) (EC-No.203-448-7)

	F+;R12	Flam. Gas 1; H220	>= 1 - <= 2 %
		Press. Gas	

Pentane (CAS-No.109-66-0) (EC-No.203-692-4)

F+;R12	Flam. Liq. 2; H225	>= 0 - <= 1 %
Xn;R65	Asp. Tox. 1; H304	
R66	STOT SE 3; H336	
R67	Aquatic Chronic 2; H411	
N;R51/53	•	

The above products are REACH compliant; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person. If breathing is irregular or stopped, administer artificial respiration.



DuPont[™] ISCEON[®] MO49 Plus[™] (R-437A) refrigerant

sion 3.0 ⁄ision Date 23.11.2012	Ref. 130000033955
I	: First aider needs to protect himself.
	If symptoms persist, call a physician.
Inhalation	Remove from exposure, lie down. Move to fresh air. Keep patient warm and a rest. Artificial respiration and/or oxygen may be necessary. Consult a physician.
Skin contact	Take off contaminated clothing and shoes immediately. Flush area with lukewarm water. Do not use hot water. If frostbite has occurred, call a physician.
Eye contact	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion	Is not considered a potential route of exposure.
4.2. Most important symptor	ns and effects, both acute and delayed
Symptoms	Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects., Other symptoms potentially related to misuse or inhalation abuse are:, Anaesthetic effects, Light-headedness, dizziness, confusion, incoordination, drowsiness, or unconsciousness, irregul heartbeat with a strange sensation in the chest, heart thumping, apprehension feeling of fainting, dizziness or weakness, Drowsiness, narcosis
	: Irritating to respiratory system., Cough, sneezing, runny nose, sore throat, or shortness of breath.
l	 Skin contact may provoke the following symptoms:, Frostbite, Irritation, Discomfort, Itching, Redness, Swelling of tissue
	: Eye contact may provoke the following symptoms:, Frostbite, Irritation, Tearin redness, or discomfort.
4.3. Indication of any immed	iate medical attention and special treatment needed
Treatment	: Do not give adrenaline or similar drugs.
CTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and t surrounding environment.
I	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2. Special hazards arising	from the substance or mixture
Specific hazards during	: Pressure build-up. Fire or intense heat may cause violent rupture of packages
firefighting	: Hazardous thermal decomposition products:
	3/16



DuPont [™] ISCEON [®] MO₄	49 Plus [™] (R-437A) refrigerant
/ersion 3.0 Revision Date 23.11.2012	Ref. 130000033955
	: Carbon oxides : Hydrogen fluoride
	: Fluorinated compounds
II	: Exposure to decomposition products may be a hazard to health.
5.3. Advice for firefighters	
Special protective equipment	: In the event of fire, wear self-contained breathing apparatus. Use personal
for firefighters	protective equipment. Wear neoprene gloves during cleaning up work after a
II	fire.
Further information	: Cool containers / tanks with water spray.
ECTION 6: Accidental release r	neasures
6.1. Personal precautions, p	rotective equipment and emergency procedures
Personal precautions	: Evacuate personnel to safe areas. Ventilate area, especially low or enclosed
	places where heavy vapours might collect. Refer to protective measures listed
	in sections 7 and 8.
6.2. Environmental precaution	ons
Environmental precautions	: Should not be released into the environment.
	In accordance with local and national regulations.
6.3. Methods and materials	for containment and cleaning up
Methods for cleaning up	: Evaporates.
6.4. Reference to other sect	ons
For disposal instructions see s	section 13.
For disposal instructions see s	section 13.
·	je
ECTION 7: Handling and storag	je
ECTION 7: Handling and storag 7.1. Precautions for safe ha	ndling : Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms. For personal
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ECTION 7: Handling and storag 7.1. Precautions for safe han Advice on safe handling	 Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8. Vapours are heavier than air and may spread along floors.
ECTION 7: Handling and storag 7.1. Precautions for safe ha	 Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8.
ECTION 7: Handling and storag 7.1. Precautions for safe han Advice on safe handling Advice on protection	 Je Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8. Vapours are heavier than air and may spread along floors. The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air or oxygen, the mixture may become flammable. Certain mixtures of HCFCs or HFCs with chlorine may become
ECTION 7: Handling and storag 7.1. Precautions for safe han Advice on safe handling Advice on protection	 Je Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8. Vapours are heavier than air and may spread along floors. The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air or oxygen, the mixture may become
ECTION 7: Handling and storag 7.1. Precautions for safe han Advice on safe handling Advice on protection against fire and explosion	 Je Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8. Vapours are heavier than air and may spread along floors. The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air or oxygen, the mixture may become flammable. Certain mixtures of HCFCs or HFCs with chlorine may become
ECTION 7: Handling and storag 7.1. Precautions for safe han Advice on safe handling Advice on protection against fire and explosion	 Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8. Vapours are heavier than air and may spread along floors. The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air or oxygen, the mixture may become flammable. Certain mixtures of HCFCs or HFCs with chlorine may become flammable or reactive under certain conditions.



Version 3.0 Revision Date 23.11.2012

Revision Date 23.11.2012		Ref. 130000033955
		the cylinder. Keep at temperature not exceeding 52 °C. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from contamination. Protect cylinders from damage. Keep away from direct sunlight. Store only in approved containers.
Advice on common storage	:	No materials to be especially mentioned.
		For further information see Section 10 of the safety data sheet.
Storage temperature	:	< 52 °C
7.3. Specific end use(s)		
no data available		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If sub-section is empty then no values are applicable.

Components with workplace control parameters

Form of exposure parameters

1,1,1,2-Tetrafluoroethane (CAS-No. 811-97-2)

TWA	4,240 mg/m3	2007	EH40 WEL	
	1,000 ppm			

Butane (<0.1% butadiene) (CAS-No. 106-97-8)

TWA	1,450 mg/m3 600 ppm	2007	EH40 WEL	
STEL	1,810 mg/m3 750 ppm	2007	EH40 WEL	

Pentane (CAS-No. 109-66-0)

	•• •/			
TWA	1,800 mg/m3 600 ppm	2007	EH40 WEL	
TWA	3,000 mg/m3 1,000 ppm	12 2009	EU ELV	Indicative

Derived No Effect Level (DNEL)

• 1,1,1,2-Tetrafluoroethane : Type of Application (Use): Workers Exposure routes: Inhalation Health Effect: Chronic effects, Systemic toxicity



sion 3.0	
vision Date 23.11.2012	Ref. 130000033955
	Value: 13936 mg/m3
	: Type of Application (Use): Consumers Exposure routes: Inhalation Health Effect: Chronic effects, Systemic toxicity Value: 2476 mg/m3
Pentafluoroethane	: Type of Application (Use): Workers Exposure routes: Inhalation Health Effect: Chronic effects, Systemic toxicity Value: 16444 mg/m3
	: Type of Application (Use): Consumers Exposure routes: Inhalation Health Effect: Chronic effects, Systemic toxicity Value: 1753 mg/m3
Predicted No Effect Concent	ration (PNEC)
• 1,1,1,2-Tetrafluoroethane	: Value: 0.1 mg/l Compartment: Fresh water
	: Value: 0.01 mg/l Compartment: Marine water
	: Value: 1 mg/l Compartment: Water Remarks: Intermittent use/release
	: Value: 0.75 mg/kg dry weight (d.w.) Compartment: Fresh water sediment
	: Value: 73 mg/l Compartment: Water Remarks: Sewage treatment plants
Pentafluoroethane	: Value: 0.1 mg/l Compartment: Fresh water
	: Value: 1 mg/l Compartment: Water Remarks: Intermittent use/release
	: Value: 0.6 mg/kg Compartment: Fresh water sediment
8.2. Exposure controls	
Engineering measures	: Ensure adequate ventilation, especially in confined areas. Local exhaust should be used when large amounts are released.
Eye protection	 Wear safety glasses or coverall chemical splash goggles. Eye protection complying with EN 166. or
	ANSI Z87.1



Version 3.0 Revision Date 23.11.2012

Revision Date 23.11.2012		Ref. 130000033955
		Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
Hand protection	:	Material: Leather gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves.
II	:	Material: Low temperature resistant gloves
П	:	Protective gloves complying with EN 374. or US OSHA guidelines
	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Skin and body protection	:	Wear suitable protective equipment. Wear as appropriate: impervious clothing
Protective measures	:	Self-contained breathing apparatus (SCBA) is required if a large release occurs. The type of protective equipment must be selected according to the concentration and amount of the substance at the specific workplace.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.
Respiratory protection	:	For rescue and maintenance work in storage tanks use self-contained breathing apparatus. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Respiratory protection complying with EN 137.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	7/16
Relative vapor density	: 3.7 at 25 ℃
Density	: 1.192 g/cm3 at 21 ℃, (as liquid)
Flash point	: does not flash
Boiling point/boiling range	: -3229 ℃
Melting point/range	: Not available for this mixture.
рН	: neutral
Odour	: slight, ether-like
Colour	: colourless, clear
Form	: compressed liquefied gas



DuPont [™] ISCEON [®] MO	49 Plus [™] (R-437A) refrigerant
/ersion 3.0 Revision Date 23.11.2012	Ref. 130000033955
9.2. Other information no data available	
ECTION 10: Stability and react	ivity
10.1. Reactivity	: Decomposes on heating.
10.2. Chemical stability	: The product is chemically stable.
10.3. Possibility of hazardous reactions	: Polymerization will not occur. Stable under recommended storage conditions.
10.4. Conditions to avoid	: Avoid open flames and high temperatures. The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air or oxygen, the mixture may become flammable. Certain mixtures of HCFCs or HFCs with chlorine may become flammable or reactive under certain conditions. Pressurized container: Do not pierce or burn, even after use. Keep at temperature not exceeding 52 °C.
10.5. Incompatible materials	: Alkali metals Alkaline earth metals Powdered metals Powdered metal salts
10.6. Hazardous decomposition products	 Hazardous thermal decomposition products may include: Hydrogen fluoride Carbon oxides Fluorocarbons Carbonyl fluoride
ECTION 11: Toxicological info	mation
11.1. Information on toxico	logical effects
Acute oral toxicity	
 Pentafluoroethane not applicable 	
 Butane (<0.1% butadie not applicable 	ne)
 Pentane LD50 / rat : > 2,000 mg not applicable 	g/kg
Acute inhalation toxicity	
 1,1,1,2-Tetrafluoroetha LC50 / 4 h rat :567000 	
Low Observed Adverse Cardiac sensitization	e Effect Concentration (LOAEC) / dog :75000 ppm
	8/16



DuPont [™] ISCEON [®] MO49 Plus [™] (R-437A) refrigerant
Version 3.0 Revision Date 23.11.2012 Ref. 130000033955
No Observed Adverse Effect Concentration (NOAEC) / dog :50000 ppm Cardiac sensitization
Pentafluoroethane LC50 / 4 h rat :> 800000 ppm
Low Observed Adverse Effect Concentration (LOAEC) / dog :100000 ppm Cardiac sensitization
 Butane (<0.1% butadiene) LC50 / 4 h rat :277018 ppm Irritating to respiratory system. Central nervous system depression narcosis
Low Observed Adverse Effect Concentration (LOAEC) / dog :150000 ppm Cardiac sensitization
 Pentane LC50 / 4 h mouse :70000 ppm Irritating to respiratory system. narcosis
LC50 / 4 h rat : > 20 mg/l
Acute dermal toxicity
Pentafluoroethane not applicable
Butane (<0.1% butadiene) not applicable
Pentane not applicable
Skin irritation
 1,1,1,2-Tetrafluoroethane
rabbit Classification: Not classified as irritant
Result: slight irritation Not expected to cause skin irritation based on expert review of the properties of the substance
human
Classification: Not classified as irritant Result: No skin irritation
Pentafluoroethane
Not tested on animals Classification: Not classified as irritant
Result: No skin irritation Not expected to cause skin irritation based on expert review of the properties of the substance
 Butane (<0.1% butadiene) Not tested on animals
0/16



DuPont[™] ISCEON[®] MO49 Plus[™] (R-437A) refrigerant Version 3.0 Revision Date 23.11.2012 Ref. 13000033955 Classification: Not classified as irritant Result: No skin irritation Not expected to cause skin irritation based on expert review of the properties of the substance. Pentane rabbit Classification: Not classified as irritant Result: slight irritation Eye irritation • 1,1,1,2-Tetrafluoroethane rabbit Classification: Not classified as irritant Result: slight irritation Not expected to cause eye irritation based on expert review of the properties of the substance. human Classification: Not classified as irritant Result: No eye irritation Pentafluoroethane Not tested on animals Classification: Not classified as irritant Result: No eye irritation Not expected to cause eye irritation based on expert review of the properties of the substance. • Butane (<0.1% butadiene) Not tested on animals Classification: Not classified as irritant Result: No eve irritation Not expected to cause eye irritation based on expert review of the properties of the substance. Pentane rabbit Classification: Not classified as irritant Result: No eye irritation Sensitisation • 1,1,1,2-Tetrafluoroethane quinea pig Classification: Not a skin sensitizer. Result: Did not cause sensitization on laboratory animals. Not expected to cause sensitization based on expert review of the properties of the substance. Did not cause sensitization on laboratory animals. There are no reports of human respiratory sensitization. • Pentafluoroethane Not tested on animals Classification: Not a skin sensitizer. Result: Does not cause skin sensitization. Not expected to cause sensitization based on expert review of the properties of the substance.



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Version 3.0 Revision Da	ate 23.11.2012		Ref. 1300	00033955			
٦	There are no repor	ts of human respirator	y sensitiza	ation.			
		nals		Not expected	to cause sensi	tization based on	expert
	^D entane guinea pig Classification: Not Result: Animal tes	a skin sensitizer. t did not cause sensitiz	zation by s	skin contact.			
Repeat	ted dose toxicity						
I	I,1,1,2-Tetrafluoro nhalation rat No toxicologically s	ethane significant effects were	found.				
I	Pentafluoroethane nhalation rat No toxicologically s	ignificant effects were	found.				
I	Butane (<0.1% but nhalation multiple No toxicologically s		found.				
(Pentane Dral rat No toxicologically s	ignificant effects were	found.				
	nhalation rat No toxicologically s	ignificant effects were	found.				
Mutage	enicity assessment						
ŀ	I,1,1,2-Tetrafluoro Animal testing did show mutagenic el	not show any mutagen	iic effects.	Tests on bac	terial or mamn	nalian cell cultures	s did not
ŀ	Pentafluoroethane Animal testing did show mutagenic el	not show any mutagen fects.	ic effects.	Tests on bac	terial or mamn	nalian cell cultures	3 did not
	Butane (<0.1% but Animal testing did	adiene) not show any mutagen	ic effects.				
	Pentane Animal testing did	not show any mutagen	ic effects.				
Carcino	ogenicity assessm	ent					
	I,1,1,2-Tetrafluoro Not classifiable as	ethane a human carcinogen.					



DuPont[™] ISCEON[®] MO49 Plus[™] (R-437A) refrigerant Version 3.0 Revision Date 23.11.2012 Ref. 13000033955 • Pentafluoroethane Not classifiable as a human carcinogen. • Butane (<0.1% butadiene) no data available Pentane no data available Toxicity to reproduction assessment • 1,1,1,2-Tetrafluoroethane No toxicity to reproduction • Pentafluoroethane No toxicity to reproduction • Butane (<0.1% butadiene) no data available • Pentane No toxicity to reproduction Assessment teratogenicity • Pentafluoroethane Did not show teratogenic effects in animal experiments. • Butane (<0.1% butadiene) no data available Pentane No toxicity to reproduction Further information Avoid skin contact with leaking liquid (danger of frostbite). **SECTION 12: Ecological information** 12.1. Toxicity Toxicity to fish • 1,1,1,2-Tetrafluoroethane LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 450 mg/l • Pentafluoroethane LC50 / 96 h / Danio rerio (zebra fish): > 200 mg/l Information given is based on data obtained from similar substances. LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 450 mg/l



3.0 n Date 23.11.2012	Ref. 130000033955
Information given is based o	on data obtained from similar substances.
 Butane (<0.1% butadiene) LC50 / 96 h / Fish (unspecifi 	ied species): > 1,000 mg/l
 Pentane LC50 / 96 h / Oncorhynchus 	s mykiss (rainbow trout): 4.26 mg/l
cicity to aquatic plants	
 1,1,1,2-Tetrafluoroethane EC50 / 72 h / Algae: > 118 Information given is based of 	mg/l on data obtained from similar substances.
 Pentafluoroethane EC50 / 96 h / Algae: 142 mg Information given is based o 	g/l on data obtained from similar substances.
Pentane ErC50 / 72 h / Scenedesmus	s capricornutum (fresh water algae): 10.7 mg/l
EbC50 / 72 h / Scenedesmu	is capricornutum (fresh water algae): 7.51 mg/l
xicity to aquatic invertebrates	
 1,1,1,2-Tetrafluoroethane EC50 / 48 h / Daphnia magn 	na (Water flea): 980 mg/l
 Pentafluoroethane EC50 / 48 h / Daphnia magn Information given is based o 	na (Water flea): > 200 mg/l on data obtained from similar substances.
 Pentane EC50 / 48 h / Daphnia magn 	na (Water flea): 2.7 mg/l
ronic toxicity to fish	
 Pentane NOEC / 28 d / Oncorhynchu 	is mykiss (rainbow trout): 6.165 mg/l
ronic toxicity to aquatic Inverteb	orates
 Pentane NOEC / 21 d / Daphnia mag 	na (Water flea): 10.76 mg/l
2. Persistence and degradab	ility
odegradability	
 1,1,1,2-Tetrafluoroethane / 28 d Biodegradation: 3 % Not readily biodegradable. 	
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DuPont[™] ISCEON[®] MO49 Plus[™] (R-437A) refrigerant Version 3.0 Revision Date 23.11.2012 Ref. 130000033955 • Butane (<0.1% butadiene) / 34 d Biodegradation: 100 % Readily biodegradable. • Pentane / 28 d Biodegradation: 71 % Readily biodegradable. 12.3. Bioaccumulative potential Bioaccumulation • 1,1,1,2-Tetrafluoroethane Bioaccumulation is unlikely. • Pentane Bioconcentration factor (BCF): 171 Bioaccumulation is unlikely. 12.4. Mobility in soil no data available 12.5. Results of PBT and vPvB assessment no data available 12.6. Other adverse effects Ozone depletion potential 0 Global warming potential (GWP) 1741 - 1948 Additional ecological information IPCC - AR4 (Fourth Assessment Report of the Intergovernmental Panel on Climate Change) - 2007 SECTION 13: Disposal considerations 13.1. Waste treatment methods Product : Can be used after re-conditioning. If re-conditioning is not practicable, dispose of in compliance with local regulations. Contaminated packaging : Empty pressure vessels should be returned to the supplier. If recycling is not practicable, dispose of in compliance with local regulations.



Version 3.0 Revision Date 23.11.2012

Ref. 130000033955

SECTION 14: Transport information ADR 14.1. UN number: 1078 14.2. UN proper shipping name: Refrigerant gas, n.o.s. (1,1,1,2-Tetrafluoroethane, Pentafluoroethane) 14.3. Transport hazard class(es): 2 14.4. Packing group: not applicable 14.5. Environmental hazards: For further information see Section 12. 14.6. Special precautions for user: Tunnel restriction code: (C/E) IATA C 14.1. UN number: 1078 14.2. UN proper shipping name: Refrigerant gas, n.o.s. (1,1,1,2-Tetrafluoroethane, Pentafluoroethane) 14.3. Transport hazard class(es): 2.2 14.4. Packing group: not applicable 14.5. Environmental hazards : For further information see Section 12. 14.6. Special precautions for user: no data available IMDG 14.1. UN number: 1078 14.2. UN proper shipping name: Refrigerant gas, n.o.s. (1,1,1,2-Tetrafluoroethane, Pentafluoroethane) 14.3. Transport hazard class(es): 2.2 14.4. Packing group: not applicable 14.5. Environmental hazards : For further information see Section 12. 14.6. Special precautions for user: no data available 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable **SECTION 15: Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture : Take note of Directive 98/24/EC on the protection of the health and safety of Other regulations workers from the risks related to chemical agents at work. 15.2. Chemical Safety Assessment No Chemical Safety Assessment has been carried out for this mixture. **SECTION 16: Other information** Text of R-phrases mentioned in Section 3 R12 Extremely flammable. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking.



Version 3.0 Revision Date 23.11.2012

Ref. 130000033955

R67

Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under section 3.

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Further information

[®] DuPont's registered trademark, Before use read DuPont's safety information., For further information contact the local DuPont office or DuPont's nominated distributors.

Significant change from previous version is denoted with a double bar.

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 given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.