



Material Safety Datasheets



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Version 2.3 Revision Date 12.04.2006

Ref. 13000000344

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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information		
Product name	: DuPont [™] SUVA [®] 124 Refrigerant	
Types	: ASHRAE Refrigerant number designation: R-1	24
Use of the Substance/Preparation	: refrigerant	
Company	 Du Pont de Nemours (Nederland) B.V. Baanhoekweg 22 NL-3313 LA Dordrecht The Netherlands 	
Telephone	: +31-78-630.1011	
Telefax	: +31-78-630.1181	
Emergency telephone number	: +44-(0)8456-006.640	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
1-Chloro-1,2,2,2-tetrafluoroethane (R124)	2837-89-0	220-629-6	N; R59	>= 99

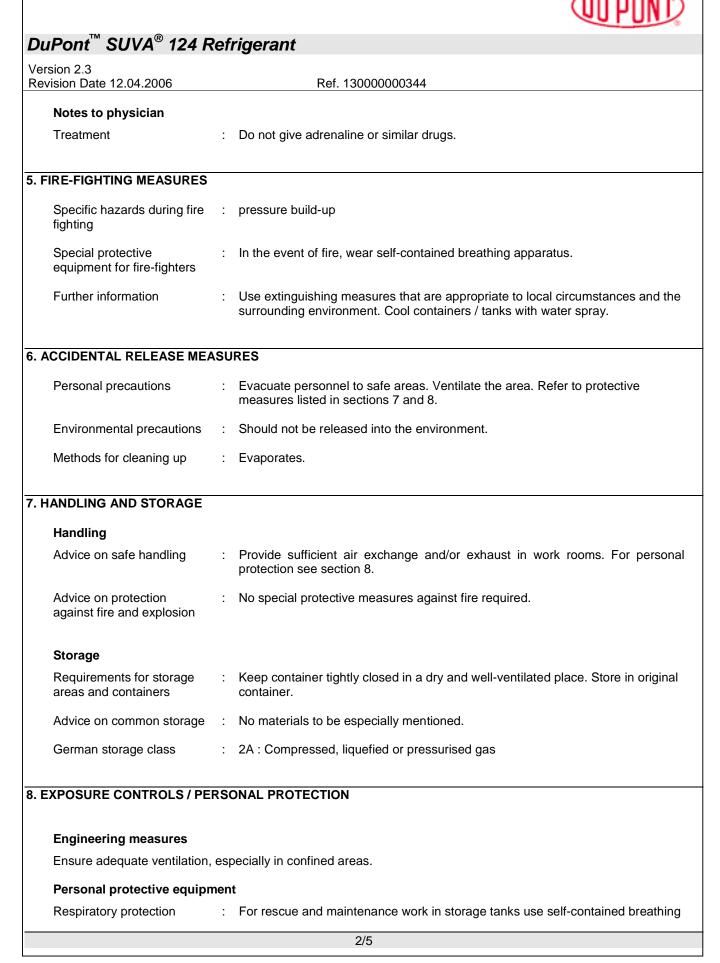
For the full text of the R phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

General advice	f unconscious place in recovery position and seek meanything by mouth to an unconscious person. If breath topped, administer artificial respiration. If symptoms p	ing is irregular or
Inhalation	Nove to fresh air. Keep patient warm and at rest. Artific oxygen may be necessary.	vial respiration and/or
Skin contact	Vash off with warm water. Take off all contaminated cl	othing immediately.
Eye contact	Rinse thoroughly with plenty of water, also under the e hysician.	yelids. Consult a





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	apparatus. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing.
Hand protection	: heat insulating gloves
Eye protection	: safety glasses
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.
PHYSICAL AND CHEMICA	
Form	: Liquefied gas,
Colour	: colourless,
Odour	: slight, ether-like,
рН	: neutral
Melting point/range	: -199,0 °C
Boiling point/range	: -11,0 °C at 1 013 hPa
Flash point	: does not flash
Explosive properties	: Not explosive
Vapour pressure	: 3 827 hPa at 25 °C
Vapour pressure	: 7 752 hPa at 50 °C
Density	: 1,36 g/cm3 at 25 °C, (as liquid)
Density	: 0,0069 g/cm3 at -11 °C (1 013 hPa)
Water solubility	: 1,5 g/l at 25 °C at 1 013 hPa
Relative vapour density	: 5,7
). STABILITY AND REACTIV	ΊΤΥ
Conditions to avoid	: The product is not flammable in air under ambient conditions of temperature ar 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.
Materials to avoid	· alkali metals, alkaline earth metals, nowdered metals, nowdered metal salts

11. TOXICOLOGICAL INFORMATION



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Acute inhalation toxicity • 1-Chloro-1,2,2,2-	: LC50/ 4 h/ rat : 1 284 mg/l			
tetrafluoroethane (R124) Carcinogenicity assessment	: Did not show carcinogenic effects in animal experiments.			
Toxicity to reproduction assessment	Did not show mutagenic or teratogenic effects in animal experiments.			
Human experience	: Excessive exposures may affect human health, as follows:			
	Inhalation severe shortness of breath, narcosis, Irregular cardiac activity			
Further information	 Cardiac sensitisation threshold limit : 139 550 mg/m3 Anaesthetic effects threshold limit : 781 480 mg/m3 Rapid evaporation of the liquid may cause frostbite. 			
12. ECOLOGICAL INFORMATION)N			
Ozone depletion potential	: 0,02 - 0,04			
Global warming potential (GWP)	varming potential : 620			
13. DISPOSAL CONSIDERATIO	NS			
Product	: Can be used after re-conditioning.			
Contaminated packaging	: Empty pressure vessels should be returned to the supplier.			
14. TRANSPORT INFORMATIO	Ν			
ADR				
Class:	2			
Classification Code:	2A			
HI No::	20			
UN-No:				
Proper shipping name:	1-Chloro-1,2,2,2-tetrafluoroethane			
IATA_C				
Class:	2.2			
UN-No:	1021			
Labelling No.:	2.2			
Proper shipping name:	1-Chloro-1,2,2,2-tetrafluoroethane			
IMDG				
Class:	2.2			
UN-No:	1021			
Labelling No.:				
Proper shipping name:				
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15. REGULATORY INFORMATION

Labelling according to EC Directives				
Symbol(s)	: N	Dangerous for the environment		
R-phrase(s)	: R59	Dangerous for the ozone layer.		
S-phrase(s)	: S59	Refer to manufacturer / supplier for information on recovery / recycling.		

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R59 Dangerous for the ozone layer.

Further information

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

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