



SUVA[®] 507 Refrigerant

Version 2.1

Revision Date 13.10.2004

Ref. 130000000772

This SDS adheres to the standards and regulatory requirements of the European Community and may not meet the regulatory requirements of other countries.

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

Product information

Product name : SUVA[®] 507 Refrigerant

Types : ASHRAE Refrigerant number designation: R-507

Use of the Substance/Preparation : refrigerant

Company : DuPont de Nemours (Nederland) B.V.
Dordrecht Works
Baanhoekweg 22
3313 LA Dordrecht

Telephone : +31786301720
Telefax : +31786301192

Emergency telephone number : +44-(0)2871-861.313

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
Pentafluoroethane (R125)	354-33-6	206-557-8		50
1,1,1-Trifluoroethane (R143a)	420-46-2	206-996-5	F+; R12	50

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

3. HAZARDS IDENTIFICATION

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 : 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. If symptoms persist, call a physician.

Inhalation : Move to fresh air. Keep patient warm and at rest. Artificial respiration and/or oxygen may be necessary.

Skin contact : Wash off with warm water. Take off all contaminated clothing immediately.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.

Notes to physician

Treatment : Do not give adrenaline or similar drugs.

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5. FIRE-FIGHTING MEASURES

Specific hazards during fire fighting : pressure build-up

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Evacuate personnel to safe areas. Ventilate the area. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Should not be released into the environment.

Methods for cleaning up : Evaporates.

7. HANDLING AND STORAGE**Handling**

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8.

Advice on protection against fire and explosion : No special protective measures against fire required.

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Store in original container.

Advice on common storage : No materials to be especially mentioned.

German storage class : 2A : Compressed, liquefied or pressurised gas

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

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.



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Hand protection : heat insulating gloves

Eye protection : safety glasses

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquefied gas,

Colour : colourless,

Odour : ether-like,

pH : neutral

Boiling point/range : -46,9 °C at 1 013 hPa

Flash point : does not flash

Vapour pressure : 12 750 hPa at 25 °C

Density : 1,079 g/cm³ at 25 °C, (as liquid)

10. STABILITY AND REACTIVITY

Conditions to avoid : 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.

Materials to avoid : alkali metals, alkaline earth metals, powdered metals, powdered metal salts

Hazardous decomposition products : hydrogen halides, carbon dioxide (CO₂), Carbon monoxide, fluorocarbons, carbonyl halides

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

- Pentafluoroethane (R125) : ALC/4 h/rat : > 3 480 mg/l
- 1,1,1-Trifluoroethane (R143a) : LC50/4 h/rat : > 1 855 mg/l

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:

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Inhalation
severe shortness of breath, narcosis, Irregular cardiac activity

Further information : Rapid evaporation of the liquid may cause frostbite.

12. ECOLOGICAL INFORMATION

Global warming potential : 3 800
(CO₂ = 1)

13. DISPOSAL CONSIDERATIONS

Product : Can be used after re-conditioning.
Contaminated packaging : Empty pressure vessels should be returned to the supplier.

14. TRANSPORT INFORMATION**ADR**

Class: 2
Classification Code: 2A
HI No.: 20
UN-No: 3163
Labelling No.: 2.2
Proper shipping name: Liquefied gas, n.o.s. (Pentafluoroethane, 1,1,1-Trifluoroethane)

IATA_C

Class: 2.2
UN-No: 3163
Labelling No.: 2.2
Proper shipping name: Liquefied gas, n.o.s. (Pentafluoroethane, 1,1,1-Trifluoroethane)

IMDG

Class: 2.2
UN-No: 3163
Labelling No.: 2.2
Proper shipping name: Liquefied gas, n.o.s. (Pentafluoroethane, 1,1,1-Trifluoroethane)

15. REGULATORY INFORMATION**Labelling according to EC Directives**

The product does not need to be labelled in accordance with EC directives or respective national laws.



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16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R12 Extremely flammable.

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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