

Version 2.3

Revision Date 17.07.2007 Ref. 130000000570

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[®] 410A Refrigerant

Types : ASHRAE Refrigerant number designation: R-410A

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

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

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

2. 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No. | EC-No. | Classification | Concentration [%] |
|--------------------------|----------|-----------|----------------|-------------------|
| Pentafluoroethane (R125) | 354-33-6 | 206-557-8 | | 50 |
| Difluoromethane (R32) | 75-10-5 | 200-839-4 | F+; R12 | 50 |

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

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.



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Notes to physician

Treatment : Do not give adrenaline or similar drugs.

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



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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquefied gas,

Colour : colourless,

Odour : ether-like,

pH : neutral

Boiling point/boiling range : -51,6 °C at 1 013 hPa

Flash point : does not flash

Lower explosion limit : , not applicable

Vapour pressure : 16 530 hPa at 25 °C

Vapour pressure : 30 520 hPa at 50 °C

Density : 1,062 g/cm3 at 25 °C, (as liquid)

Density : 0,0066 g/cm3 at ca. 26 °C (1 013 hPa)

10. STABILITY AND REACTIVITY

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

• Difluoromethane (R32) : LC50/ 4 h/ rat : 2 158 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.



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Human experience : Excessive exposures may affect human health, as follows:

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

(GWP)

: 1975

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-Number: 1078
Labelling No.: 2.2

Proper shipping name: Refrigerant gas, n.o.s. (Pentafluoroethane, Difluoromethane)

IATA_C

Class: 2.2 UN-Number: 1078 Labelling No.: 2.2

Proper shipping name: Refrigerant gas, n.o.s. (Pentafluoroethane, Difluoromethane)

IMDG

Class: 2.2 UN-Number: 1078 Labelling No.: 2.2

Proper shipping name: Refrigerant gas, n.o.s. (Pentafluoroethane, Difluoromethane)

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.

National legislation

Water contaminating class

: WGK 1 slightly water endangering

(Germany)

SAFETY DATA SHEET according to Regulation (EU) No. 1907/2006



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16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

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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