



## DuPont™ Suva® 407C Refrigerant

Version 6.0 (replaces: Version 5.0)

Revision Date 16.05.2015

Ref. 130000000517

This Safety Data Sheet 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™ Suva® 407C Refrigerant

Types : ASHRAE Refrigerant number designation: R-407C

Synonyms : Suva® 9000

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

Use of the Substance/Mixture : Refrigerant, For professional users only.

#### 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-(0)-78-630-1011

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

#### 1.4. Emergency telephone number

Emergency telephone number : +(44)-870-8200418

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Gases under pressure, H280: Contains gas under pressure; may explode if heated.  
Liquefied gas

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

#### 2.2. Label elements



Warning



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H280	Contains gas under pressure; may explode if heated.
Special labelling of certain substances and mixtures	Kyoto: Contains fluorinated greenhouse gas covered by the Kyoto Protocol.,HFC-134a,HFC-125,HFC-32,
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

**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.  
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 to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
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**Difluoromethane (CAS-No.75-10-5) (EC-No.200-839-4)**

01-2119471312-47	F+;R12	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	23 %
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**Pentafluoroethane (CAS-No.354-33-6) (EC-No.206-557-8)**

01-2119485636-25		Press. Gas Liquefied gas; H280	25 %
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**1,1,1,2-Tetrafluoroethane (CAS-No.811-97-2) (EC-No.212-377-0)**

01-2119459374-33		Press. Gas Liquefied gas; H280	52 %
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The above products are compliant to REACH registration obligations; 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.



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### 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.
- : 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 at 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 symptoms 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, irregular heartbeat with a strange sensation in the chest, heart thumping, apprehension, feeling of fainting, dizziness or weakness
- : Skin contact may provoke the following symptoms:, Frostbite, Irritation, Discomfort, Itching, Redness, Swelling of tissue
- : Eye contact may provoke the following symptoms:, Frostbite, Irritation, Tearing, redness, or discomfort.

#### 4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : Do not give adrenaline or similar drugs.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment., Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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### 5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Pressure build-up. Fire or intense heat may cause violent rupture of packages.
- : Hazardous thermal decomposition products:
- : Carbon oxides
  - : Hydrogen fluoride
  - : Fluorocarbons
  - : Carbonyl fluoride
  - : Exposure to decomposition products may be a hazard to health.

### 5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear neoprene gloves during cleaning up work after a fire.
- Further information : Cool containers/tanks with water spray.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective 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 precautions

- 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 sections

For disposal instructions see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Advice on safe handling : Vapours are heavier than air and may spread along floors.
- 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.
- Advice on protection : The product is not flammable in air under ambient conditions of temperature



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against fire and explosion 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.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Do not drag, slide or roll cylinders. Never attempt to lift cylinder by its cap. Use a check valve or trap in the discharge line to prevent hazardous back flow into 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 period : > 10 yr

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

Type Form of exposure	Control parameters	Update	Regulatory basis	Remarks
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#### 1,1,1,2-Tetrafluoroethane (CAS-No. 811-97-2)

Time Weighted Average (TWA):	4,240 mg/m3 1,000 ppm	2007	UK. EH40 Workplace Exposure Limits (WELs)	
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#### Derived No Effect Level (DNEL)

- Difluoromethane : Type of Application (Use): Workers  
Exposure routes: Inhalation  
Health Effect: Chronic effects, Systemic toxicity  
Value: 7035 mg/m3
- : Type of Application (Use): Consumers  
Exposure routes: Inhalation  
Health Effect: Chronic effects, Systemic toxicity  
Value: 750 mg/m3
- Pentafluoroethane : Type of Application (Use): Workers



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Exposure routes: Inhalation  
Health Effect: Chronic effects, Systemic toxicity  
Value: 16444 mg/m<sup>3</sup>

: Type of Application (Use): Consumers  
Exposure routes: Inhalation  
Health Effect: Chronic effects, Systemic toxicity  
Value: 1753 mg/m<sup>3</sup>

• 1,1,1,2-Tetrafluoroethane : Type of Application (Use): Workers  
Exposure routes: Inhalation  
Health Effect: Chronic effects, Systemic toxicity  
Value: 13936 mg/m<sup>3</sup>

: Type of Application (Use): Consumers  
Exposure routes: Inhalation  
Health Effect: Chronic effects, Systemic toxicity  
Value: 2476 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

- Difluoromethane : Value: 0.142 mg/l  
Compartment: Fresh water
- : Value: 1.42 mg/l  
Compartment: Water  
Remarks: Intermittent use/release
- : Value: 0.534 mg/kg  
Compartment: Fresh water sediment
- 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
- 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



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: Value: 73 mg/l  
Compartment: Water  
Remarks: Sewage treatment plants

### 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 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.
- : Material: Low temperature resistant gloves
- :  
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

Form : Liquefied gas



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Colour	: colourless
Odour	: slight, ether-like
Melting point/range	: Not available for this mixture.
Boiling point	: -43.6 °C
Flash point	: Not applicable
Ignition temperature	: 685 °C
Vapour pressure	: 11,903 hPa at 25 °C : 21,860 hPa at 50 °C
Density	: 1.136 g/cm <sup>3</sup> at 25 °C, (as liquid) : 0.0042 g/cm <sup>3</sup> at 25 °C (1,013 hPa)
Water solubility	: not determined

**9.2. Other information**

no data available

**SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	: Decomposes on heating.
<b>10.2. Chemical stability</b>	: The product is chemically stable.
<b>10.3. Possibility of hazardous reactions</b>	: Stable under recommended storage conditions.
<b>10.4. Conditions to avoid</b>	: 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.
<b>10.5. Incompatible materials</b>	: Alkali metals Alkaline earth metals Powdered metals Powdered metal salts
<b>10.6. Hazardous decomposition products</b>	: Hazardous thermal decomposition products may include: Hydrogen fluoride Carbon oxides Fluorocarbons





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Carbonyl fluoride

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute inhalation toxicity

- Difluoromethane

LC50 / 4 h Rat :> 520000 ppm

Low Observed Adverse Effect Concentration (LOAEC) / Dog :> 350000 ppm

Cardiac sensitization

No Observed Adverse Effect Concentration / Dog :350000 ppm

Cardiac sensitization

- Pentafluoroethane

LC50 / 4 h Rat :> 800000 ppm

Method: OECD Test Guideline 403

No Observed Adverse Effect Concentration / Dog :75000 ppm

Cardiac sensitization

Low Observed Adverse Effect Concentration (LOAEC) / Dog :100000 ppm

Cardiac sensitization

- 1,1,1,2-Tetrafluoroethane

LC50 / 4 h Rat :> 567000 ppm

No Observed Adverse Effect Concentration / Dog :40000 ppm

Cardiac sensitization

Low Observed Adverse Effect Concentration (LOAEC) / Dog :80000 ppm

Cardiac sensitization

Skin irritation

- Difluoromethane

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.

- 1,1,1,2-Tetrafluoroethane

Rabbit

Classification: Not classified as irritant

Result: No skin irritation

Eye irritation

- Difluoromethane

Not tested on animals



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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.

- 1,1,1,2-Tetrafluoroethane  
Rabbit  
Classification: Not classified as irritant  
Result: No eye irritation

### Sensitisation

- Difluoromethane  
Not tested on animals  
Result: Does not cause skin sensitisation.  
Not expected to cause sensitization based on expert review of the properties of the substance.

There are no reports of human respiratory sensitization.

- Pentafluoroethane  
human  
Classification: Does not cause respiratory sensitisation.  
Result: Does not cause respiratory sensitisation.

- 1,1,1,2-Tetrafluoroethane  
Guinea pig  
Classification: Does not cause skin sensitisation.  
Result: Does not cause skin sensitisation.

Rat  
Classification: Does not cause respiratory sensitisation.  
Result: Does not cause respiratory sensitisation.

### Repeated dose toxicity

- Difluoromethane  
Inhalation Rat  
No toxicologically significant effects were found.
- Pentafluoroethane  
Inhalation Rat  
No toxicologically significant effects were found.
- 1,1,1,2-Tetrafluoroethane  
Inhalation Rat  
No toxicologically significant effects were found.

### Mutagenicity assessment

- Difluoromethane  
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Pentafluoroethane



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Animal testing did not show any mutagenic effects. Evidence suggests this substance does not cause genetic damage in cultured mammalian cells. Did not cause genetic damage in cultured bacterial cells.

- 1,1,1,2-Tetrafluoroethane  
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Carcinogenicity assessment

- Pentafluoroethane  
Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.
- 1,1,1,2-Tetrafluoroethane  
Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.

### Toxicity to reproduction assessment

- Difluoromethane  
No toxicity to reproduction Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances.
- Pentafluoroethane  
No toxicity to reproduction Animal testing showed no reproductive toxicity.
- 1,1,1,2-Tetrafluoroethane  
No toxicity to reproduction No effects on or via lactation Animal testing showed no reproductive toxicity.

### Assessment teratogenicity

- Difluoromethane  
Animal testing showed no developmental toxicity.
- Pentafluoroethane  
Animal testing showed no developmental toxicity.
- 1,1,1,2-Tetrafluoroethane  
Animal testing showed no developmental toxicity.

### Further information

Avoid skin contact with leaking liquid (danger of frostbite).

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity to fish

- Difluoromethane  
LC50 / 96 h / Fish: 1,507 mg/l



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- Pentafluoroethane  
LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 450 mg/l  
Information given is based on data obtained from similar substances.
- 1,1,1,2-Tetrafluoroethane  
LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 450 mg/l

### Toxicity to aquatic plants

- Difluoromethane  
EC50 / 96 h / Algae: 142 mg/l
- Pentafluoroethane  
ErC50 / 96 h / Algae: 142 mg/l  
Information given is based on data obtained from similar substances.  
NOEC / 72 h / Pseudokirchneriella subcapitata (green algae): 13.2 mg/l  
Information given is based on data obtained from similar substances.
- 1,1,1,2-Tetrafluoroethane  
ErC50 / 96 h / Algae: 142 mg/l  
Information given is based on data obtained from similar substances.  
NOEC / 72 h / Pseudokirchneriella subcapitata (green algae): 13.2 mg/l  
Information given is based on data obtained from similar substances.

### Toxicity to aquatic invertebrates

- Difluoromethane  
EC50 / 48 h / Daphnia (water flea): 652 mg/l
- Pentafluoroethane  
EC50 / 48 h / Daphnia magna (Water flea): 980 mg/l  
Information given is based on data obtained from similar substances.
- 1,1,1,2-Tetrafluoroethane  
EC50 / 48 h / Daphnia magna (Water flea): 980 mg/l

### Chronic toxicity to fish

- Difluoromethane  
NOEC / 30 d / Fish (unspecified species): 65.8 mg/l

## 12.2. Persistence and degradability

### Biodegradability

- Difluoromethane  
/ 28 d  
Biodegradation: 5 %  
Method: OECD Test Guideline 301D  
Not readily biodegradable.



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- Pentafluoroethane  
Not rapidly biodegradable
- 1,1,1,2-Tetrafluoroethane  
Not biodegradable

### 12.3. Bioaccumulative potential

no data available

### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB 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

Ozone depletion potential

0

Global warming potential (GWP)

1774

### 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.

## SECTION 14: Transport information

### ADR

- |                                   |   |
|-----------------------------------|---|
| 14.1. UN number:                  | 3340                                    |
| 14.2. UN proper shipping name:    | REFRIGERANT GAS R 407C                  |
| 14.3. Transport hazard class(es): | 2                                       |
| 14.4. Packing group:              | Not applicable                          |
| 14.5. Environmental hazards:      | For further information see Section 12. |



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14.6. Special precautions for user:  
Tunnel restriction code: (C/E)

### IATA\_C

14.1. UN number: 3340  
14.2. UN proper shipping name: Refrigerant gas R 407C  
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: 3340  
14.2. UN proper shipping name: REFRIGERANT GAS R 407C  
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

Other regulations : Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### 15.2. Chemical Safety Assessment

Chemical Safety Assessments have been carried out for these substances.

## SECTION 16: Other information

### Text of R-phrases mentioned in Section 3

R12 Extremely flammable.

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

H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.

### Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE Acute toxicity estimate  
CAS-No. Chemical Abstracts Service number  
CLP Classification, Labelling and Packaging  
EbC50 Concentration at which 50% reduction of biomass is observed



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EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA):
vPvB	very Persistent and very Bioaccumulative

### 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.

Based on the physico-chemical hazard assessment of this mixture, it was decided to include inside the main body of the safety data sheet all the relevant information coming from the exposure scenario of the lead/priority substances. Please refer to the safety data sheet of the individual components for additional information on exposure scenario.

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.