

SAFETY DATA SHEET

Version 1.5
Revision Date 08.12.2020
Supersedes Version: 1.4

SDS Number 300000003538
Print Date 05.03.2022

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

1.1. Product identifier : Halocarbon 407C

Refer to Section 3 for REACH information

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

Use of the Substance/Mixture : Industrial and professional use. Perform risk assessment prior to use.
Restrictions on Use : Refrigerant.
Not for consumer use.

1.3. Details of the supplier of the safety data sheet : Air Products Ireland Ltd
Unit 950 Western Industrial Estate
Kileen Road
Dublin 12
Ireland

Email Address – Technical Information : GASTECH@airproducts.com

Telephone : 1-4659650

1.4. Emergency telephone number : (01) 463 4200 / +353 1 463 4200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Hazard pictograms/symbols



Signal Word: Warning

Hazard Statements:

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

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Precautionary Statements:

Storage : P403:Store in a well-ventilated place.

2.3. Other hazards

Can cause rapid suffocation.
Compressed liquefied gas.
Avoid breathing gas.
Direct contact with liquid can cause frostbite.
Self-contained breathing apparatus (SCBA) may be required.
Mixture does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances : Not applicable.

3.2. Mixtures

Components	EINECS / ELINCS Number	CAS Number	Concentration (Weight)
Difluoromethane	200-839-4	75-10-5	23 %
Pentafluoroethane	206-557-8	354-33-6	25 %
1,1,1,2-Tetrafluoroethane	212-377-0	811-97-2	52 %

Components	Classification (CLP)	REACH Reg. #
Difluoromethane	Press. Gas (Liq.) ;H280 Flam. gas 1B ;H221	01-2119471312-47
Pentafluoroethane	Press. Gas (Comp.) ;H280	01-2119485636-25
1,1,1,2-Tetrafluoroethane	Press. Gas (Liq.) ;H280	01-2119459374-33

Refer to section 16 for full text of each relevant hazard statement (H).

Concentration is nominal. For the exact product composition, please refer to technical specifications.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Keep eye wide open while rinsing. Seek medical advice.

Skin contact : Wash frost-bitten areas with plenty of water. Do not remove clothing. Cover wound with sterile dressing.

Ingestion : Ingestion is not considered a potential route of exposure.

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Inhalation : Move to fresh air. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. In case of shortness of breath, give oxygen.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms : Exposure to oxygen deficient atmosphere may cause the following symptoms: Dizziness. Salivation. Nausea. Vomiting. Loss of mobility/consciousness.

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

Treatment : If exposed or concerned: Get medical attention/advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : The product itself does not burn.
Use extinguishing media appropriate for surrounding fire.

Extinguishing media which must not be used for safety reasons. : Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

: Exposure to high temperatures may yield toxic by- products which may be corrosive in the presence of moisture. Upon exposure to intense heat or flame, cylinder will vent rapidly and or rupture violently. Product is nonflammable and does not support combustion. Move away from container and cool with water from a protected position. If possible, stop flow of product. Keep adjacent cylinders cool by spraying with large amounts of water until the fire burns itself out.

5.3. Advice for firefighters : Wear self contained breathing apparatus for fire fighting if necessary. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ventilate the area. Monitor oxygen level.

6.2. Environmental precautions : Should not be released into the environment. Do not discharge into any place where its accumulation could be dangerous. Prevent further leakage or spillage. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.3. Methods and material for containment and cleaning up : Ventilate the area.

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Additional advice : If possible, stop flow of product. Increase ventilation to the release area and monitor oxygen level. If leak is from cylinder or cylinder valve, call the emergency telephone number. If the leak is in the user's system, close the cylinder valve, safely vent the pressure, and purge with an inert gas before attempting repairs.

6.4. Reference to other sections : For more information refer to Sections 8 & 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Only experienced and properly instructed persons should handle compressed gases/cryogenic liquids. Protect cylinders from physical damage; do not drag, roll, slide or drop. Do not allow storage area temperature to exceed 50°C (122°F). Before using the product, determine its identity by reading the label. Know and understand the properties and hazards of the product before use. When doubt exists as to the correct handling procedure for a particular gas, contact the supplier. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. Use an adjustable strap wrench to remove over-tight or rusted caps. Before connecting the container, check the complete gas system for suitability, particularly for pressure rating and materials. Before connecting the container for use, ensure that back feed from the system into the container is prevented. Ensure the complete gas system is compatible for pressure rating and materials of construction. Ensure the complete gas system has been checked for leaks before use. Employ suitable pressure regulating devices on all containers when the gas is being emitted to systems with lower pressure rating than that of the container. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Open valve slowly. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Close valve after each use and when empty. Replace outlet caps or plugs and container caps as soon as container is disconnected from equipment. Do not subject containers to abnormal mechanical shock. Never attempt to lift a cylinder by its valve protection cap or guard. Always use backflow protective device in piping. When returning cylinder install valve outlet cap or plug leak tight. Never use direct flame or electrical heating devices to raise the pressure of a container. Containers should not be subjected to temperatures above 50°C (122°F). Never attempt to increase liquid withdrawal rate by pressurizing the container without first checking with the supplier. Never permit liquefied gas to become trapped in parts of the system as this may result in hydraulic rupture.

7.2. Conditions for safe storage, including any incompatibilities

Full containers should be stored so that oldest stock is used first. Containers should be stored in the vertical position and properly secured to prevent toppling. The container valves should be tightly closed and where appropriate valve outlets should be capped or plugged. Container valve guards or caps should be in place. Observe all regulations and local requirements regarding storage of containers. Stored containers should be periodically checked for general condition and leakage. Protect containers stored in the open against rusting and extremes of weather. Containers should not be stored in conditions likely to encourage corrosion. Containers should be stored in a purpose build compound which should be well ventilated, preferably in the open air. Keep containers tightly closed in a cool, well-ventilated place. Store containers in location free from fire risk and away from sources of heat and ignition. Full and empty cylinders should be segregated. Do not allow storage temperature to exceed 50°C (122°F). Return empty containers in a timely manner.

Technical measures/Precautions

Containers should be segregated in the storage area according to the various categories (e.g. flammable, toxic, etc.) and in accordance with local regulations. Keep away from combustible material.

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7.3. Specific end use(s)

Refer to section 1 or the extended SDS if applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If applicable, refer to the extended section of the SDS for further information on CSA.

DNEL: Derived no effect level (Workers)

Components

Difluoromethane	Long-term - systemic effects, inhalation	7035 mg/m3
Pentafluoroethane	Long-term - systemic effects, inhalation	16444 mg/m3
1,1,1,2-Tetrafluoroethane	Long-term - systemic effects, inhalation	13936 mg/m3

PNEC: predicted no effect concentration

Components

Difluoromethane	Aqua (freshwater)	0.142 mg/l
Difluoromethane	Aqua (intermittent, freshwater)	1.42 mg/l
Difluoromethane	Sediment (freshwater)	0.534 mg/kg
Pentafluoroethane	Aqua (freshwater)	0.1 mg/l
Pentafluoroethane	Aqua (intermittent, freshwater)	1 mg/l
Pentafluoroethane	Sediment (freshwater)	0.6 mg/kg
1,1,1,2-Tetrafluoroethane	Aqua (freshwater)	0.1 mg/l
1,1,1,2-Tetrafluoroethane	Aqua (intermittent, freshwater)	1 mg/l
1,1,1,2-Tetrafluoroethane	Aqua (marine water)	0.01 mg/l
1,1,1,2-Tetrafluoroethane	Sediment (freshwater)	0.75 mg/kg
1,1,1,2-Tetrafluoroethane	Sewage treatment plant	73 mg/l

8.2. Exposure controls

Engineering measures

Provide natural or mechanical ventilation to prevent oxygen deficient atmospheres below 19.5% oxygen.

Personal protective equipment

- Respiratory protection : Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmosphere.
Air purifying respirators will not provide protection. Users of breathing apparatus must be trained.
- Hand protection : Wear work gloves when handling gas containers.
Standard EN 388 - Protective gloves against mechanical risk.
- Eye/face Protection : Safety glasses recommended when handling cylinders.
Standard EN 166 - Personal eye-protection.
- Skin and body protection : Safety shoes are recommended when handling cylinders.
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
- Special instructions for protection and hygiene : Ensure adequate ventilation, especially in confined areas.

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Environmental Exposure Controls : If applicable, refer to the extended section of the SDS for further information on CSA.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- (a/b) Physical state/Colour : Liquefied gas. Colorless gas
- (c) Odour : Ether-like.
- (e) Relative Density : 1.16 (water = 1)
(e) Relative Density : 3.2812 (air = 1) Heavier than air.
- (f) Melting point / freezing point : No data available.
- (g) Boiling point/range : -44 °F (-42.4 °C)
(h) Vapor pressure : 156.19 psia (10.77 bara)
- (i) Water solubility : No reliable data available.
- (j) Partition coefficient:
n-octanol/water [log Kow] : Not known.
- (k) pH : Not applicable for gases and gas mixtures.
- (l) Viscosity : No reliable data available.
- (m) Particle characteristics : Not applicable for gases and gas mixtures.
- (n) Upper and lower explosion /
flammability limits : Non flammable.
- (o) Flash point : Not applicable for gases and gas mixtures.
- (p) Autoignition temperature : Non flammable.
- (q) Decomposition
temperature : Not applicable.

9.2. Other information

- Explosive properties : Not applicable.
- Oxidizing properties : No data available.
- Molecular Weight : 86.2 g/mol
- Molecular Weight : 95.02 g/mol
- Odor threshold : Odour threshold is subjective and inadequate to warn of overexposure.
- Evaporation rate : Not applicable for gases and gas mixtures.

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Flammability (solid, gas) : Refer to product classification in Section 2
Relative vapor density : No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity : No reactivity hazard other than the effects described in sub-sections below.
10.2. Chemical stability : Stable under normal conditions.
10.3. Possibility of hazardous reactions : No data available.
10.4. Conditions to avoid : No data available.
10.5. Incompatible materials : No data available.
10.6. Hazardous decomposition products : No data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure

Effects on Eye : Contact with liquid may cause cold burns/frostbite.
Effects on Skin : Contact with liquid may cause cold burns/frostbite.
Inhalation Effects : Inhalation of high concentrations may also cause mild central nervous system depression and heartbeat irregularities. In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themselves.
Ingestion Effects : Ingestion is not considered a potential route of exposure.
Symptoms : Exposure to oxygen deficient atmosphere may cause the following symptoms: Dizziness. Salivation. Nausea. Vomiting. Loss of mobility/consciousness.

Acute toxicity

Acute Oral Toxicity : No data is available on the product itself.
Acute Inhalation Toxicity : No data is available on the product itself.

Components
Difluoromethane

LC50 (4 h) : > 520000 ppm

Species : Rat.

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Pentafluoroethane	LC50 (4 h) : > 800000 ppm OECD Test Guideline 403	Species : Rat.
Pentafluoroethane	NOAEC : 100000 ppm	Species : Dog.
1,1,1,2-Tetrafluoroethane	LC50 (4 h) : > 567000 ppm	Species : Rat. male
1,1,1,2-Tetrafluoroethane	NOAEC : 40000 ppm	Species : Dog.

Acute Dermal Toxicity : No data is available on the product itself.

Skin corrosion/irritation : No data available.

Serious eye damage/eye irritation : No data available.

Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

Carcinogenicity : No data available.

Reproductive toxicity : No data is available on the product itself.

Germ cell mutagenicity : No data is available on the product itself.

Specific target organ systemic toxicity (single exposure) : No data available.

Specific target organ systemic toxicity (repeated exposure) : Difluoromethane was not teratogenic in rats or rabbits. Minimal fetal and maternal toxicity in rats and maternal toxicity in rabbits were seen at a concentration of 5% Difluoromethane.

Aspiration hazard : No data available.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity : No data is available on the product itself.

Toxicity to fish - Components

Difluoromethane	LC50 (96 h) : 1,507 mg/l	Species : Fish.
Difluoromethane	NOEC (720 h) : 65.8 mg/l	Species : Fish.
Pentafluoroethane	LC50 (96 h) : 450 mg/l	Species : Rainbow trout (Oncorhynchus mykiss).
1,1,1,2-Tetrafluoroethane	LC50 (96 h) : 450 mg/l	Species : Rainbow trout (Oncorhynchus mykiss).
1,1,1,2-Tetrafluoroethane	NOEC (720 h) : 65.8 mg/l	Species : Fish.

Toxicity to daphnia - Components

Difluoromethane	EC50 (48 h) : 652 mg/l	Species : Daphnia magna.
Pentafluoroethane	EC50 (48 h) : 980 mg/l	Species : Daphnia magna.
1,1,1,2-Tetrafluoroethane	EC50 (48 h) : 980 mg/l	Species : Daphnia

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magna.

Toxicity to algae - Components

Difluoromethane
Pentafluoroethane
Pentafluoroethane

EC50 (96 h) : 142 mg/l
ErC50 (96 h) : 142 mg/l
NOEC (72 h) : 13.2 mg/l

Species : Algae.
Species : Algae.
Species : Selenastrum
capricornutum
(Pseudokirchneriella
subcapitata)
Species : Algae.
Species : Selenastrum
capricornutum
(Pseudokirchneriella
subcapitata)

1,1,1,2-Tetrafluoroethane
1,1,1,2-Tetrafluoroethane

ErC50 (96 h) : 142 mg/l
NOEC (72 h) : 13.2 mg/l

Toxicity to other organisms : No data is available on the product itself.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Refer to Section 9 "Partition Coefficient (n-octanol/water)".

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

If applicable, refer to the extended section of the SDS for further information on CSA.

12.6. Other adverse effects

Contains fluorinated greenhouse gases covered by Kyoto Protocol. For quantities see concentrations or cylinder contents.

Effect on the ozone layer : No known effects from this product.
Ozone Depleting Potential : None

Effect on global warming : When discharged in large quantities may contribute to the greenhouse effect.

Global Warming Potential :
Components :
Difluoromethane : 675
Pentafluoroethane : 3,500
1,1,1,2-Tetrafluoroethane : 1,430

SECTION 13: Disposal considerations

13.1. Waste treatment : Contact supplier if guidance is required. Refer to the EIGA code of practice Doc. 30 "Disposal of Gases", downloadable at <http://www.eiga.org> for more guidance

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methods on suitable disposal methods. List of hazardous waste codes: 14 06 01:
Chlorofluorocarbons, HCFC, HFC.

Contaminated packaging : Return cylinder to supplier.

SECTION 14: Transport information

14.1. UN number

UN/ID No. : UN3340

14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : REFRIGERANT GAS R 407C
Transport by air (ICAO-TI / IATA-DGR) : Refrigerant gas R 407C
Transport by sea (IMDG) : REFRIGERANT GAS R 407C

14.3. Transport hazard class(es)

Label(s) : 2.2

Transport by road/rail (ADR/RID)
Class or Division : 2
ADR/RID Hazard ID no. : 20
Tunnel Code : (C/E)

Transport by air (ICAO-TI / IATA-DGR)
Class or Division : 2.2

Transport by sea (IMDG)
Class or Division : 2.2

14.4. Packing group

Transport by road/rail (ADR/RID) : Not applicable.
Transport by air (ICAO-TI / IATA-DGR) : Not applicable.
Transport by sea (IMDG) : Not applicable.

14.5. Environmental hazards

Transport by road/rail (ADR/RID)
Marine Pollutant : No

Transport by air (ICAO-TI / IATA-DGR)
Marine Pollutant : No

Transport by sea (IMDG)
Marine Pollutant : No
Segregation Group : None

14.6. Special precautions for user

Transport by air (ICAO-TI / IATA-DGR)
Passenger and Cargo Aircraft : Transport allowed
Cargo Aircraft only : Transport allowed

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Further Information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Compliance with applicable regulations. Before transporting product containers ensure that they are firmly secured and: Cylinder valve is closed and not leaking. Valve outlet cap nut or plug (where provided) is correctly fitted. Valve protection device (where provided) is correctly fitted. Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.
Canada	DSL	Included on Inventory.

Other Regulations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

15.2. Chemical safety assessment

A CSA does not need to be carried out for this product.

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SECTION 16: Other information

Ensure all national/local regulations are observed.

Hazard Statements:

H221 Flammable gas.

H280 Contains gas under pressure; may explode if heated.

Indication of Method:

Gases under pressure Liquefied gas. Contains gas under pressure; may explode if heated. Calculation method

Abbreviations and acronyms:

ATE - Acute Toxicity Estimate

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

EINECS - European Inventory of Existing Commercial Chemical Substances

ELINCS - European List of Notified Chemical Substances

CAS# - Chemical Abstract Service number

PPE - Personal Protection Equipment

Kow - octanol-water partition coefficient

DNEL - Derived No Effect Level

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

NOEC - No Observed Effect Concentration

PNEC - Predicted No Effect Concentration

RMM - Risk Management Measure

OEL - Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic

vPvB - Very Persistent and Very Bioaccumulative

STOT - Specific Target Organ Toxicity

CSA - Chemical Safety Assessment

EN - European Standard

UN - United Nations

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

WGK - Water Hazard Class

Key literature references and sources for data:

ECHA - Guidance on the compilation of safety data sheets

ECHA - Guidance on the application of the CLP Criteria

ARIEL database

Prepared by : Air Products and Chemicals, Inc. Global EH&S Department

For additional information, please visit our Product Stewardship web site at
<http://www.airproducts.com/productstewardship/>

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws. COMMISSION REGULATION (EU) 2015/830 of

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28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.
