

SAFETY DATA SHEET

Refrigerant Gas R407C

Version 1

Revision Date: 20.05.2011



SAFETY DATA SHEET

REFRIGERANT R407C

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

Product name: REFRIGERANT R407C

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

Use: Refrigerant.

Advised Against: No specific uses advised again have been identified, other than restrictions in the F-Gas Regulations.

1.3. Details of the supplier of the safety data sheet

Company name:

National Refrigerants Ltd.
4 Watling Close
Sketchley Meadows Business Park
Hinckley LE10 3EZ
Tel: +44(0)1455 630790
Fax: +44(0) 1455 630791
Email: sds@nationalref.com

1.4. Emergency telephone number

Emergency Tel: +44(0) 1865 407333

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance of mixture

Classification under CHIP: This substance is not classified as dangerous according to Directive 67/548/EEC.

Most important adverse effect: Rapid evaporation of the liquid may cause frostbite.
Vapour is heavier than air and can cause suffocation.

2.2. Label elements

Directives 67/458/EEC or 1999/45/EC: This substance is not classified as dangerous according to Directive 67/548/EEC.

Special labelling of certain mixtures: Contains fluorinated greenhouse gases covered by the Kyoto Protocol

2.3. Other hazards

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Hazardous Ingredients:

3.2 Mixtures

DIFLUOROMETHANE (R32)

EINECS	CAS	67/548/EEC Classification	CLP Classification	Percent
200-839-4	75-10-5	F+; R12	H220: Flammable gas	21 - 25%

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			H280: Pressurised gas	
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PENTAFLUOROETHANE (R125)

EINECS	CAS	67/548/EEC Classification	CLP Classification	Percent
206-557-8	354-33-6		H280: Pressurised gas	23 - 27%

1,1,1,2-TETRAFLUOROETHANE

EINECS	CAS	67/548/EEC Classification	CLP Classification	Percent
212-377-0	811-97-2		H280: Pressurised Gas	50 - 54%

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Skin contact:	Take off all contaminated clothing immediately if not stuck to the skin. 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:	This is not considered a potential route of exposure.
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.
General Advice	Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.

4. 2. Most important symptoms and effects, both acute and delayed

Skin contact:	Low exposure will cause redness and pain. High exposure will cause frostbite, blisters and severe pain.
Eye contact:	Cause severe pain and cornea damage.
Ingestion:	Not a route of exposure.
Inhalation:	Shortness of breath, severe headache, dizziness, nausea, weakness, and unconsciousness. Irregular cardiac activity.
Treatment:	Do not give adrenaline or similar drugs.

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

Immediate/special treatment:	Burns pack should be available on the premises.
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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media:	Water spray, Foam, Dry chemical Carbon dioxide (CO ₂). Use extinguishing measures that are appropriate to local and surrounding environment. Cool cylinders/tanks with water spray.
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5.2. Special hazards arising from the substance or mixture

Special hazards arising from the mixture	Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Vapours or gases may travel considerable distances to ignition source and flash back. Fire or intense heat may cause violent rupture of packages. Hazardous thermal decomposition products: carbon oxides, hydrogen fluoride, carbonyl fluoride.
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5.3. Advice for fire-fighters

Advice for fire-fighters:	In the event of fire wear self-contained breathing apparatus. Use personal protective equipment. Wear neoprene gloves during cleaning work after a fire.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Ventilate the area, especially low or enclosed places where heavy vapours might collect.

6.2. Environmental precautions

Environmental precautions: Should not be released into the atmosphere.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Material evaporates.

6.4. Reference to other sections

Reference to other sections: Refer to Section 7 of SDS. Refer to Section 8 of SDS.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling requirements: *Advice on handling:* Avoid breathing vapours or mist. Avoid liquid contact with skin and clothing. Provide sufficient air exchange and/or exhaust in work rooms.
Advice on protection against fire and explosion: No special measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: 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 cylinders tightly closed in a dry, cool and well-ventilated place.

Suitable packaging: Store in original cylinder only.
Protect from contamination.

Storage temperature: Less than 52°C

7.3. Specific end use(s)

Specific end use(s) No data available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

If subsection is empty then no values are applicable

8.1. Control parameters

Hazardous ingredients:

PENTAFLUOROETHAN (HFC125)

Workplace exposure limits

State	8 hour TWA	15 min. STEL
UK	1000 ppm (4900 mg/m ³)	-

1,1,1,2-TETRAFLUOROETHANE (HFC134a)

Workplace exposure limits

State	8 hour TWA	15 min. STEL
UK	1000 ppm (4240 mg/m ³)	-

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8.2. Derived No Effect Level

Difluoromethane

Type of Application (Use): Workers
Exposure routes: Inhalation
Health effects: Chronic effects, Systemic toxicity
Value: 7035 mg/m³

Type of application (Use): Consumers
Exposure routes: Inhalation
Health effects: Chronic effects, Systemic toxicity
Value: 750 mg/m³

Pentafluoroethane

Type of Application (Use): Workers
Exposure routes: Inhalation
Health effects: Chronic effects, Systemic toxicity
Value: 16444 mg/m³

Type of application (Use): Consumers
Exposure routes: Inhalation
Health effects: Chronic effect, Systemic toxicity
Value; 1753 mg/m³

1,1,1,2-Tetrafluoroethane

Type of Application (Use): Workers
Exposure routes: Inhalation
Health effects: Chronic effects, Systemic toxicity
Value: 13936 mg/m³

Type of application (Use): Consumers
Exposure routes: Inhalation
Health effects: Chronic effect, Systemic toxicity
Value; 2476 mg/m³

8.3 Predicted No Effect Concentration

Difluoromethane

Value: 0.142 mg/l
Compartment: Fresh water

Value: 1.42 mg/l
Compartment: Water
Remarks; Intermittent use/release

Value: 0.534 mg/l
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/l
Compartment: Fresh water sediment

1,1,1,2-Tetrafluoroethane

Value; 0.1 mg/l
Compartment: Fresh water

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Value: 0.01 mg/l
Compartment: Water
Remarks: Intermittent use/release

Value: 1 mg/l
Compartment: Fresh water sediment

Value: 0.75 mg/l
Compartment: Fresh water sediment

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

8.4 Exposure controls

Engineering measures:	Ensure adequate ventilation, especially in confined areas. Local exhaust should be used when large amounts are released.
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.
Hand protection:	Heat insulating gloves
Eye protection:	Safety glasses with side shields. Wear a face shield in addition where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
Skin protection:	Wear impervious clothing that covers legs and arms.
Protective measures	When using do not smoke
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental:	Gas escapes to be kept to the minimum by engineering processes and operating methods.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

State:	Liquefied gas under pressure.
Colour:	Clear colourless liquid and vapour.
Odour:	Ethereal
Molecular weight:	86.20 g/mole
Boiling Point/range:	-43.56°C (at one atmosphere)
Flash Point:	Does not flash. Non-flammable
Vapour pressure:	10.999 Bar (10999 hPa) at 20°C
Liquid Density:	1159 kg/m ³ at 20°C
Vapour Density:	4.629 kg/m ³ at boiling point.
Water solubility:	Insoluble
Solubility (Other):	Soluble in: alcohols, chlorinated solvents, esters

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity:	Stable under recommended storage and transport conditions.
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10.2. Chemical stability

Chemical stability:	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions:	Hazardous reactions will not occur under recommended storage and transport conditions. May react with aluminium.
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10.4. Conditions to avoid

Conditions to avoid:	Heat, hot surfaces, flames.
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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 or reactive under certain conditions.

10.5. Incompatible material

Materials to avoid: Alkali metals, alkaline earth metals, powdered metals, powdered metal salts.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition yields toxic products which can be corrosive in the presence of moisture.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity

Difluoromethane	Not applicable
Pentafluoroethane	Not applicable
1,1,1,2-Tetrafluoroethane	Not applicable

Acute inhalation toxicity

Inhalation	
Difluoromethane:	LC50/rat: > 520 000 ppm /dog: Not a cardiac sensitizer.
Pentafluoroethane:	LC50/rat: > 800 000 ppm /dog: Cardiac sensitization.
1,1,1,2-Tetrafluoroethane:	LC50/rat: 567 000 ppm /dog: Cardiac sensitization.

Acute dermal toxicity

Difluoromethane;	Not applicable
Pentafluoroethane:	Not applicable
1,1,1,2-Tetrafluoroethane:	Not applicable

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.
Pentafluoroethane:	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: slight skin irritation. Not expected to cause skin irritation based on expert review of the properties of the substance. Human Classification: Not classified as irritant Result: No skin irritation.

Eye irritation

Difluoromethane:	Not tested on animals. 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.
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Pentafluoroethane: Not tested on animals.
Classification: Not classified as irritant
Result: No eye irritation.
Not expected to cause eye irritation bases on expert review of the properties of the substance.

1,1,1,2-tetrafluoroethane Rabbit
Classification: Not classified as irritant
Result: slight skin irritation.
Not expected to cause eye irritation bases on expert review of the properties of the substance.

Human
Classification: Not classified as irritant
Result: No eye irritation.

Sensitisation

Difluoromethane: Not tested on animals.
Classification: Not a skin irritant
Result: Does not cause skin sensitisation.
Not expected to cause skin sensitisation bases on expert review of the properties of the substance.

There are reports of human respiratory sensitisation.

Pentafluoroethane: Not tested on animals.
Classification: Not a skin irritant
Result: Does not cause skin sensitisation.
Not expected to cause skin sensitisation bases on expert review of the properties of the substance.

1,1,1,2-Tetrafluoroethane: Guinea pig
Classification: Not a skin irritant
Result: Did not cause skin sensitisation on laboratory animals.
Not expected to cause skin sensitisation bases on expert review of the properties of the substance.

Did not cause sensitisation on laboratory animals. There are no reports of human 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,

Mutagenic assessment

Difluoromethane: Animal testing did not show any mutagenic effects.
Tests on bacteria or mammalian cell cultures did not show mutagenic effects.

Pentafluoroethane: Animal testing did not show any mutagenic effects.
Tests on bacteria or mammalian cell cultures did not show mutagenic effects.

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

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Carcinogenicity Assessment

Difluoromethane:	Not classifiable as a human carcinogen.
Pentafluoroethane:	Not classifiable as a human carcinogen.
1,1,1,2-Tetrafluoroethane:	Not classifiable as a human carcinogen.

Toxicity to reproduction assessment

Difluoromethane:	No toxicity to reproduction.
Pentafluoroethane:	No toxicity to reproduction.
1,1,1,2-Tetrafluoroethane:	No toxicity to reproduction.

Human experience

Excessive exposures may affect human health as follows:
Inhalation: Sever shortness of breath, narcosis, irregular cardiac activity.

Futher information

Rapid evaporation of the liquid may cause frostbite. May cause cardiac arrhythmia.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish:

Difluoromethane: LC₅₀/96 h/Fish: 1507 mg/l

Pentafluoroethane:

LC₅₀/96 h/Oncorhynchus (rainbow trout): > 81.2 mg/l
Information given is based on data obtained from similar substances.

LC₅₀/96 h/Danio rerio (zebra fish): > 200 mg/l
Information given is based on data obtained from similar substances.

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: LC₅₀/96 h/Algae: 142 mg/l

Pentafluoroethane:

LC₅₀/72 h/Pseudokirchneriella subcapitata (green algae): >118 mg/l
Information given is based on data obtained from similar substances.

LC₅₀/72 h/Pseudokirchneriella subcapitata (green algae): >114 mg/l
Information given is based on data obtained from similar substances.

LC₅₀/96 h/Algae: 142 mg/l
Information given is based on data obtained from similar substances.

1,1,1,2-Tetrafluoroethane:

LC₅₀/72 h/algae: >118 mg/l
Information given is based on data obtained from similar substances.

Toxicity to aquatic invertebrates

Difluoromethane EC₅₀/48 h/Daphnia: 652 mg/l

Pentafluoroethane

EC₅₀/48 h/Daphnia magna (Water flea): > 200 mg/l
Information given is based on data obtained from similar substances.

EC₅₀/48 h/Daphnia magna (Water flea): > 97.9 mg/l
Information given is based on data obtained from similar substances.

EC₅₀/48 h/Daphnia magna (Water flea): > 97.9 mg/l
Information given is based on data obtained from similar substances.

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1,1,1,2-Tetrafluoroethane: EC₅₀/48 h/Daphnia magna (Water flea): 980 mg/l

Ecotoxic values: When discharged may contribute to the greenhouse effect.

Global Warming Potential (GWP) 0 (CO₂ = 1)

Ozone Depletion Potential (ODP) 1674 (R11 = 1)

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bio accumulative potential

Bio-accumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: No data available

12.6. Other adverse effects

Other adverse effects: Ozone Depletion Potential (ODP): 0 (R11 = 1)
Global Warming Potential: 1773 (CO₂ = 1)

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal operations: Do not allow product to be released into the environment.

Recovery Operations: Consult the manufacturer or supplier for information regarding recovery and recycling of the product. If recovery is not possible, incinerate at a licensed installation.

Disposal of packaging: De-gas and return cylinders to suppliers.

N.B. The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14. TRANSPORT INFORMATION

14.1. ADR

UN Number: 3340

Class: 2

Classification code: 2A

Hazard Identification Number: 20

Labelling Number: 2.2

Proper Shipping Name: Refrigerant Gas R407C

Tunnel code: (C/E)

14.2. IATA_C

UN Number: 3340

Class: 2

Labelling Number: 2.2

Proper Shipping Name: Refrigerant Gas R407C

14.3. IMDG

UN Number: 3340

Class: 2

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Labelling Number: 2.2
EmS: F-C, S-V
Proper Shipping Name: Refrigerant Gas R407C
Marine Pollutant: No

SECTION 15. REGULATORY INFORMATION

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

Special labelling of certain mixtures: Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out by the supplier of this mixture.

16. OTHER INFORMATION

Other information: This safety sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.
* Indicates text in SDS which has changed since the last revision

Text of R-phrases mentioned in Section 3: R12 Extremely flammable

Full text of H-statements referred under Section 3:
H220 Extremely flammable gas
H280 Contains gas under pressure; may explode if heated.

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GENERAL SAFETY & HANDLING DATA

1. GENERAL

Only trained persons should handle compressed gases. Observe all regulations and local requirements regarding the storage of Cylinders. Do not remove or deface labels provided by the supplier for the identification of the Cylinder contents. Ascertain the identity of the gas before using it. Know and understand the properties and hazards associated with each gas before using it. When doubt exists as to the correct handling procedure for a particular gas contact the supplier.

HANDLING AND USE

Wear stout gloves. Never lift a Cylinder by the cap or guard unless the supplier states it is designed for that purpose. Use trolley or other suitable device or technique for transporting heavy Cylinders, even for a short distance. Where necessary wear suitable eye and face protection. The choice between safety glasses, chemical goggles, or full face shield will depend on the pressure and nature of the gas being used,

Where necessary for toxic gases see that self-contained positive pressure breathing apparatus or full face airline respirator is available in the vicinity of the working area. Employ suitable pressure regulating device on all Cylinders when gas is being emitted to systems with lower pressure rating than that of the Cylinder. Ascertain that all electrical systems in the area are suitable for service with each gas.

Never use direct flame or electrical heating devices to raise the pressure of a Cylinder, Cylinders should not be subjected to temperatures above 45°C. Never re-compress a gas mixture without consulting the supplier. Never attempt to transfer gases from one Cylinder to another. Do not use Cylinders as rollers or supports, or for any other purpose other than to contain the gas as supplied. Never permit oil, grease or other readily combustible substances to come into contact with valves of Cylinders containing oxygen or other oxidants. Keep Cylinder valves clean and free from contaminants particularly oil and water.

Do not subject Cylinders to mechanical shocks which may cause damage to their valves or safety devices.

Never attempt to repair or modify Cylinder valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Close the Cylinder valve whenever gas is not required even if the Cylinder is still connected to the equipment.

2. STORAGE

Cylinders should be stored in a well-ventilated area. Some gases will require a purpose built area. Store Cylinders in a location free from fire risk and away from sources of heat and ignition. Designate as a no smoking area.

Gas Cylinders should be segregated in the storage according to the various categories.

The storage area should be kept clear and access should be restricted to authorized persons only, the area should be clearly marked as a storage area and appropriate hazard warning signs displayed (Flammable, Toxic etc.).

The amount of flammable or toxic gases should be kept to a minimum.

Flammable gases should be stored away from other combustible materials.

Cylinders held in storage should be periodically checked for general condition and leakage.

Cylinders in storage should be properly secured to prevent toppling or rolling.

Vertical storage is recommended where the Cylinder is designed for this.

Cylinder valves should be tightly closed and, where appropriate, valves should be capped or plugged. Protect Cylinders stored in the open against rusting and extremes of weather.

Cylinders should not be stored in conditions likely to encourage corrosion.

Store full and empty Cylinders separately and arrange full Cylinders so that the oldest stock is used first.

FOR FURTHER INFORMATION CONTACT YOUR NEAREST DISTRIBUTION CENTRE

INITIAL SUBSTANCE COSHH ASSESSMENT

Department	MSDS Ref No	N/A	Assessment Ref	N/A
Site Wide				
Chemical Name	Risk Phrases			
Refrigerant R407c	None			
Classification	Flammable			
Hazard Group	A		Exposure Limits - Dusts	N/A
			Exposure Limits - Liquid	>50 to 500 ppm
Least Hazardous Substances		More Hazardous Substances		Special Case
A	B	C	D	E

Exposure Potential	
Frequency of Use	Infrequently, minutes
Physical Properties	High Volatility Liquid
Max Amount Used	Small - Millilitres
Exposure Predictor	2 – Millilitres of high volatility liquid
Control Measures	1 – General
Predicted Concentration (COSHH ESSENTIALS)	
Dust mg.m ⁻³	Liquid ppm
N/A	5 to 50

Personal Protective Equipment		Answer	Type
1	Are gloves required to be worn	Yes	Nitrile
2	Is protective clothing required	Yes	Cotton
3	Is safety eyewear required	Yes	Goggles
4	Is safety footwear required	Yes	
5	Is head protection required	No	
6	Is hearing protection required when working in this area	Yes	
7	Is respiratory protective equipment worn currently	No	

Initial Substance Assessment Conclusion				Answer
The hazards associated with this material, the amount of material used and the frequency and duration of the activity result an extremely low likelihood that a risk to health exists when using this material under open conditions or on the open bench and using good work practice.				✓
The amount being used and the frequency and duration of exposure indicate that if used under the control of local exhaust ventilation the risks to health would be reduced to well below the exposure limits and that the potential risks to health would be low.				
Due to the hazards associated with this material the PPE identified above must be worn when handling this material in order to prevent direct skin contact. If PPE is worn in accordance with manufacturers recommendations the risks to health will be adequately controlled.				✓
The hazards associated with this material indicate that a detailed risk assessment must be completed.				
Do not use this material unless a detailed COSHH Assessment has been completed				
Assessor Name	Signature	Last Assessment Date	Assessment Reviewed Date	Next Review Date
D. Cuthbert		24/05/2017	N/A	24/05/2022