

Safety Data Sheet

Product :

R508B

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MSDS Nr : 300-15-2019BOC

Version : 1

Date : 30/11/2001

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name R508B
Company identification see heading and/or footer
Emergency phone numbers see heading and/or footer

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation Preparation
Components/Impurities Contains the following components: 54% w/w Hexafluoroethane (R116)/46% w/w Trifluoromethane (R23)
EEC Nr (from EINECS) Not applicable for preparations

3 HAZARDS IDENTIFICATION

Hazards identification In high concentrations may cause asphyxiation.
Compressed gas

4 FIRST AID MEASURES

Inhalation In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness.
Victim may not be aware of asphyxiation.
Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
Ingestion Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES

Specific hazards Exposure to fire may cause containers to rupture/explode.
Non flammable
Hazardous combustion products If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition:
Carbonyl fluoride
Carbon monoxide
Hydrogen fluoride
Suitable extinguishing media All known extinguishants can be used.
Specific methods If possible, stop flow of product.
Move away from the container and cool with water from a protected position.

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Special protective equipment for fire fighters

Use self-contained breathing apparatus and chemically protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate area.

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Ensure adequate air ventilation.

Environmental precautions

Try to stop release.

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Clean up methods

Ventilate area.

7 HANDLING AND STORAGE

Handling and storage

Suck back of water into the container must be prevented.

Do not allow backfeed into the container.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

Refer to supplier's container handling instructions.

Keep container below 50°C in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value for country

UK: Hexafluoroethane (R116) - LTEL:1000ppm

UK: Trifluoromethane (R23) - LTEL:1000ppm

Personal protection

Ensure adequate ventilation.

Do not smoke while handling product.

9 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight

95.4

Boiling point

-88.3 °C

Critical temperature

14 °C

Relative density, gas

3.3 (air=1)

Solubility mg/l water

No reliable data available.

Appearance/Colour

Colourless gas

Odour

Ethereal

Poor warning properties at low concentrations.

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Other data

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY

Stability and reactivity

Stable under normal conditions.

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

11 TOXICOLOGICAL INFORMATION

General

Hexafluoroethane (R116) - May produce irregular heart beat and nervous symptoms.

Trifluoromethane (R23) - May produce irregular heart beat and nervous symptoms.

12 ECOLOGICAL INFORMATION

General

Hexafluoroethane (R116) - When discharged in large quantities may contribute to the greenhouse effect.

Trifluoromethane (R23) - When discharged in large quantities may contribute to the greenhouse effect.

Global warming factor

12300 (CO₂=1)

13 DISPOSAL CONSIDERATIONS

General

Avoid discharge to atmosphere.

Do not discharge into any place where its accumulation could be dangerous.

Refer to supplier's waste gas recovery programme.

Contact supplier if guidance is required.

14 TRANSPORT INFORMATION

UN Nr

1956

Class/Div

2.2

ADR/RID Item Nr

2,1° A

ADR/RID Hazard Nr

20

Labelling ADR

Label 2: non flammable non toxic gas

Other transport 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.

Before transporting product containers ensure that they are firmly secured and:

- cylinder valve is closed and not leaking

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- valve outlet cap nut or plug (where provided) is correctly fitted
- valve protection device (where provided) is correctly fitted
- there is adequate ventilation.
- compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548

Not applicable for preparations

EC Classification

Not classified as dangerous substance.

Labelling of cylinders

-Symbols

Label 2: non flammable non toxic gas

16 OTHER INFORMATION

Ensure all national/local regulations are observed.

Asphyxiant in high concentrations.

Keep container in well ventilated place.

Do not breathe the gas.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

Users of breathing apparatus must be trained.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

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.

End of document.

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