1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name: Octafluoropropane (R218)
Chemical formula: C₃F₈
Company identification: see heading and/or footer
Emergency phone numbers: see heading and/or footer

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Substance.
Components/Impurities: Contains no other components or impurities which will influence the classification of the product.
CAS Nr: 00076-19-7
EEC Nr (from EINECS): 200-941-9

3 HAZARDS IDENTIFICATION

Hazards identification: Liquefied gas
In high concentrations may cause asphyxiation.

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.

Skin/eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing.

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 flames may be produced by thermal decomposition:
Carbonyl fluoride
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/PERSOAL PROTECTION

Personal protection
Ensure adequate ventilation.
Do not smoke while handling product.

9 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight
188
Melting point
-183 °C
Boiling point
-36.7 °C
Critical temperature
71.9 °C
Relative density, gas
6.5 (air=1)
Relative density, liquid: 1.4 (water=1)
Vapour Pressure 20°C: 7.7 bar
Solubility mg/l water: No reliable data available.
Appearance/Colour: Colourless gas
Odour: Ethereal

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: No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION
General: Not covered by the ‘Montreal Protocol’.
When discharged in large quantities may contribute to the greenhouse effect.
Global warming factor: 7000 (CO₂=1)

13 DISPOSAL CONSIDERATIONS
General: Avoid discharge to atmosphere.
Do not discharge into any place where its accumulation could be dangerous.
Contact supplier if guidance is required.

14 TRANSPORT INFORMATION
UN Nr: 2424
Class/Div: 2.2
ADR/RID Item Nr: 2.2° A
ADR/RID Hazard Nr: 20
CEFIC Groupcard Nr: 20G39
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
15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548: Not included in Annex I.
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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