1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name: Xenon
Chemical formula: Xe
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: 7440-63-3
EC Nr (from EINECS): 231-172-7

3 HAZARDS IDENTIFICATION

Hazard identification: In high concentrations may cause asphyxiation.
Compressed gas

4 FIRST AID MEASURES

Inhalation: In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. In high concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. 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: None
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.
Special protective equipment for fire fighters: In confined space use self-contained breathing apparatus.
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

Personal protection
Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight
131
Melting point
-112 °C
Boiling point
-108 °C
Critical temperature
16.6 °C
Relative density, gas
4.5 (air=1)
Relative density, liquid
Not applicable.
Vapour Pressure 20°C
Not applicable.
Solubility mg/l water
644 mg/l
Appearance/Colour
Colourless gas
Odour
None
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.

11 TOXICOLOGICAL INFORMATION
General No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION
General No known ecological damage caused by this product.

13 DISPOSAL CONSIDERATIONS
General To atmosphere in a well ventilated place.
Do not discharge into any place where its accumulation could be dangerous.
Contact supplier if guidance is required.

14 TRANSPORT INFORMATION
Proper shipping name XENON
UN Nr 2036
Class 2
ADR/RID Classification code 2A
ADR/RID Hazard Nr 20
Packing group None
Labelling ADR Label 2.2: non flammable non toxic gas
IMDG EmS codes F-C, S-V
IMDG Marine pollutant No
IATA passenger packing instruction 200
IATA passenger max. quantity/pack 75kg
IATA cargo packing instruction 200
IATA cargo max. quantity/pack 150kg
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
15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548: Not included in Annex I.
EC Classification: Not classified as dangerous preparation.
EC Labelling (Symbols, R&S phrases): No EC labelling required.
Labelling of cylinders:
- Symbols: Label 2.2: 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.

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.
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.

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