

5% Helium in Nitrogen**8265**

2.2 : Non flammable, non toxic gas.

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

Trade name : 5% Helium in Nitrogen
SDS Nr : 8265
Use : Industrial and professional. Perform risk assessment prior to use.
Company identification : Energas Ltd.
Westmorland Street, Hull HU2 0HX,
United Kingdom
E-Mail address (competent person): : mark.nugent@energass.co.uk
Emergency telephone number : 01482 329333

2 Hazards identification

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

3 Composition/information on ingredients

Substance / Preparation : Preparation.
Components : This product is hazardous.
Full text of R-phrases see chapter 16
Note 1: Listed in Annex IV / V REACH, exempted from registration.
Note 2: Registration deadline not expired.

4 First aid measures

First aid measures

- **Inhalation** : 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.
Hazardous combustion products : No data available.
Extinguishing media

- **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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5 Fire-fighting measures (continued)

Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus.

6 Accidental release measures

Personal precautions : Evacuate area.
Ensure adequate air ventilation.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Environmental precautions : Try to stop release.

Clean up methods : Ventilate area.

7 Handling and storage

Handling : Open valve slowly to avoid pressure shock.
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.

Storage : 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

Physical state at 20 °C : Compressed gas.

Colour : Colourless.

Odour : Odourless.

Relative density, gas (air=1) : Lighter or similar to air.

Solubility in water [mg/l] : No reliable data available.

10 Stability and reactivity

Stability and reactivity : Stable under normal conditions.

11 Toxicological information

Toxicity information : No known toxicological effects from this product.

Rat inhalation LC50 [ppm/4h] : No data available.

12 Ecological information

Ecological effects information : No known ecological damage caused by this product.

Effect on ozone layer : None.

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13 Disposal considerations

- General** : Do not discharge into any place where its accumulation could be dangerous.
Contact supplier if guidance is required.
- Disposal method** : Consult supplier for specific recommendations.

14 Transport information

- UN number** : 1956
- **Labelling ADR, IMDG, IATA**



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Land transport

- ADR/RID**
- H.I. nr** : 20
- UN proper shipping name** : COMPRESSED GAS, N.O.S. (Nitrogen, Helium)
- Transport hazard class(es)** : 2
- **ADR/RID Classification code** : 1 A
- **Packing Instruction(s) - General** : P200
- **Tunnel Restriction** : E : Passage forbidden through tunnels of category E.

Sea transport

- **IMO-IMDG code**
- **Proper shipping name** : COMPRESSED GAS, N.O.S. (Nitrogen, Helium)
- **Class** : 2.2
- **IMO Packing group** : P200
- **IMDG-Marine pollution** : NO
- **Emergency Schedule (EmS) - Fire** : F-C
- **Emergency Schedule (EmS) - Spillage** : S-V
- **Instructions - Packing** : P200

Air transport

- **ICAO/IATA**
- **Proper shipping name** : COMPRESSED GAS, N.O.S. (Nitrogen, Helium)
- **Class** : 2.2
- **Passenger and Cargo Aircraft** :
- **Packing instruction** : 200
- **Cargo Aircraft only** :
- **Packing instruction** : 200

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 :

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14 Transport information (continued)

- Ensure that containers are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure there is adequate ventilation.
- Compliance with applicable regulations.

15 Regulatory information

Labelling EC 67/548 or EC 1999/45

Symbol(s) : None.

R Phrase(s) : None.

S Phrase(s) : None.

16 Other information

Asphyxiant in high concentrations.
Keep container in a well-ventilated place.
Do not breathe the gas.

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

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.

DISCLAIMER OF LIABILITY : 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.