

# Balloon Gas

PRODUCT : BALLOON GAS SDS : 300-00-0037 BOC VERSION : 1.02 DATE : 11/02/2003 PAGE : 1/1

## 1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY

|                               |             |
|-------------------------------|-------------|
| <b>Product name</b>           | Balloon Gas |
| <b>Company identification</b> | see footer  |
| <b>Emergency phone Nos</b>    | see footer  |

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

|                              |                          |
|------------------------------|--------------------------|
| <b>Substance/Preparation</b> | Substance                |
| <b>Components/Impurities</b> | Contains helium and air. |
| <b>CAS Nr</b>                | 7440-59-7                |
| <b>EC Nr (from EINECS)</b>   | 231-168-5                |

## 3 HAZARDS IDENTIFICATION

|                               |   |
|-------------------------------|---|
| <b>Hazards identification</b> | Compressed gas. In high concentrations may cause asphyxiation. Never deliberately inhale balloon gas. Breathing 100% balloon gas will produce unconsciousness and death due to lack of oxygen. Not classified as dangerous preparation. |
|-------------------------------|---|

## 4 FIRST AID MEASURES

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | 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. |
| <b>Ingestion</b>  | Ingestion is not considered a potential route of exposure.   |

## 5 FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Specific hazards</b>                               | Exposure to fire may cause containers to rupture/explode. Non flammable.                             |
| <b>Hazardous combustion products</b>                  | None.  |
| <b>Suitable extinguishing media</b>                   | All known extinguishants can be used.  |
| <b>Specific methods</b>                               | If possible, stop flow of product. Move container away or cool with water from a protected position. |
| <b>Special protective equipment for fire fighters</b> | In confined space use self-contained breathing apparatus.  |

## 6 ACCIDENTAL RELEASE MEASURES

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. |
| <b>Environmental precautions</b> | Try to stop release.   |
| <b>Clean up methods</b>          | Ventilate area.  |

## 7 HANDLING AND STORAGE

|                             |   |
|-----------------------------|---|
| <b>Handling and storage</b> | 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

|                            |                              |
|----------------------------|------------------------------|
| <b>Personal protection</b> | Ensure adequate ventilation. |
|----------------------------|------------------------------|

## 9 PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                             |
|---------------------------------|-----------------------------|
| <b>Molecular weight</b>         | 4                           |
| <b>Melting point</b>            | Not applicable              |
| <b>Boiling point</b>            | -269°C                      |
| <b>Critical temperature</b>     | -268°C                      |
| <b>Relative density, gas</b>    | 0.14 (air=1)                |
| <b>Relative density, liquid</b> | Not applicable              |
| <b>Vapour Pressure 20°C</b>     | Not applicable              |
| <b>Solubility mg/l water</b>    | 1.5 mg/l water              |
| <b>Appearance/Colour</b>        | Colourless gas              |
| <b>Odour</b>                    | No odour warning properties |

## 10 STABILITY AND REACTIVITY

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>Stability and reactivity</b> | Stable under normal conditions. |
|---------------------------------|---------------------------------|

## 11 TOXICOLOGICAL INFORMATION

|                |   |
|----------------|---|
| <b>General</b> | No known toxicological effects from this product. |
|----------------|---|

## 12 ECOLOGICAL INFORMATION

|                |  |
|----------------|--|
| <b>General</b> | No known ecological damage caused by this product. |
|----------------|--|

## 13 DISPOSAL CONSIDERATIONS

|                |  |
|----------------|--|
| <b>General</b> | Do not discharge into any place where its accumulation could be dangerous. To atmosphere in a well ventilated place. Contact supplier if guidance is required. |
|----------------|--|

## 14 TRANSPORT INFORMATION

|                                    |  |
|------------------------------------|--|
| <b>UN Nr</b>                       | 1046                                   |
| <b>Class/Div</b>                   | 2.2                                    |
| <b>ADR/RID Classification Code</b> | 1A                                     |
| <b>ADR/RID Hazard Nr</b>           | 20                                     |
| <b>Labelling ADR</b>               | Label 2.2: 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.
- valve outlet cap nut or plug (where provided) is correctly fitted.
- valve protection device (where provided) is correctly fitted.
- compliance with applicable regulations.
- there is adequate ventilation.

**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 2.2: non flammable non toxic gas.

**16 OTHER INFORMATION**

Ensure all national/local regulations are observed.

Asphyxiant in high concentrations. Keep containers in well ventilated place. Do not breathe the gas.

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

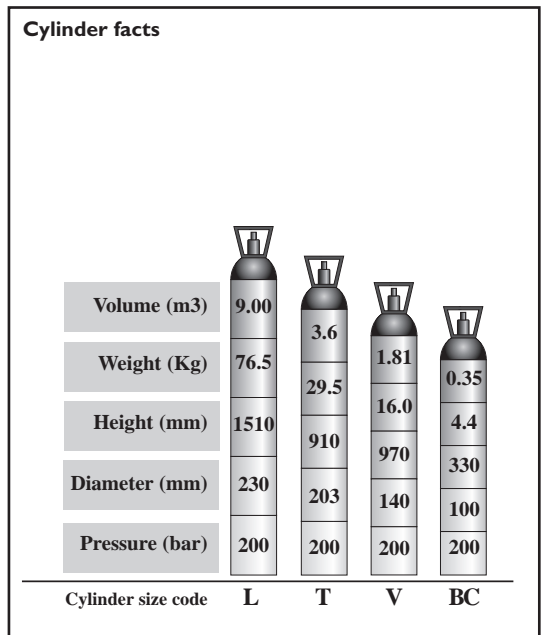
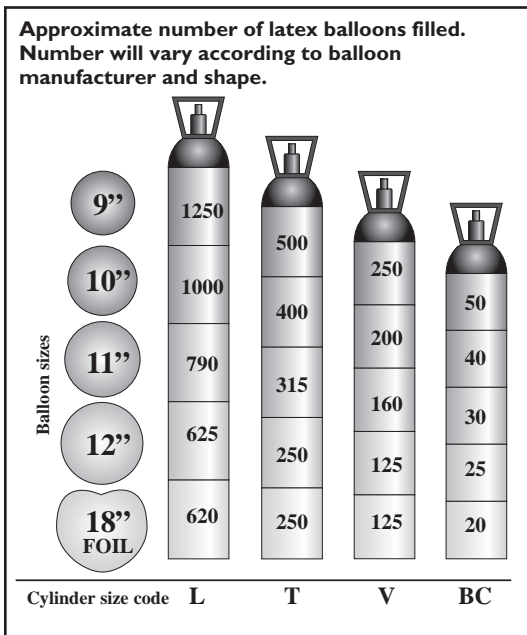
Users of breathing apparatus must be trained.

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.

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.

For further safety information please refer to "Safe Under Pressure" and "Safe handling, storage and transport of industrial gas cylinders", both of which are available from your local BOC outlet.



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