



MATERIAL SAFETY DATA SHEET



BALLOON GAS

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product name	Balloon gas
Chemical name/formula	Not applicable
Company identification	See header and footer
Emergency phone no.	See 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 No.	7440-59-7

3 HAZARDS IDENTIFICATION

General	<ul style="list-style-type: none">▶ Non-flammable 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 substance.
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4 FIRST-AID MEASURES

Inhalation	<ul style="list-style-type: none">▶ In high concentrations may cause asphyxiation. Symptoms may include loss of mobility or 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	<ul style="list-style-type: none">▶ No adverse effects anticipated.
Ingestion	<ul style="list-style-type: none">▶ Ingestion is not considered a potential route of exposure.

5 FIRE-FIGHTING MEASURES

Specific hazards	<ul style="list-style-type: none">▶ Exposure to fire may cause containers to rupture or explode.
Hazardous combustion products	<ul style="list-style-type: none">▶ None
Suitable extinguishing media	<ul style="list-style-type: none">▶ All known extinguishants can be used.
Specific methods	<ul style="list-style-type: none">▶ If possible, stop flow of product.▶ Move container away or cool with water from a protected position.
Special protective Equipment (for fire fighters)	<ul style="list-style-type: none">▶ In confined space, use a self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	<ul style="list-style-type: none">▶ Evacuate area.▶ Wear self-contained breathing apparatus when entering area unless atmosphere is proved to safe.▶ Ensure adequate air ventilation.
Environmental Precautions	<ul style="list-style-type: none">▶ Try to stop release.
Clean up methods	<ul style="list-style-type: none">▶ Ventilate area

7 HANDLING & STORAGE

General	<ul style="list-style-type: none">▶ Suck back of water into the container must be prevented. Do not allow back-feed into the container.▶ Use only properly specified equipment, which is suitable for this product, its supply pressure and temperature.▶ Keep container below 50°C in a well-ventilated place.▶ Refer to “safe handling, transport and storage of compressed gas cylinder” or contact AIG if in doubt.
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8 EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure limit value	<ul style="list-style-type: none">▶ None
Personal protection	<ul style="list-style-type: none">▶ Ensure adequate ventilation

9 PHYSICAL & CHEMICAL PROPERTIES

Molecular weight	4
Melting point	Not applicable
Boiling point	-269°C
Critical temperature	-268°C
Relative density, gas	0.14 (air = 1)
Relative density, liquid	Not applicable
Vapour pressure @20°C	Not applicable
Solubility mg/l water	1.5 mg/l
Appearance/Colour	Colourless gas
Odour	No odour warning properties
Auto-ignition temperature	Not applicable
Flammability range	Not flammable

10 STABILITY & REACTIVITY

General ▶ Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

General ▶ No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION

General ▶ No known ecological effects from this product.

13 DISPOSAL CONSIDERATIONS

General ▶ Do not discharge into areas where its accumulation could be dangerous.
▶ Vent to atmosphere in a well-ventilated place.
▶ Contact AIG if guidance is required.

14 TRANSPORT INFORMATION

UN No. 1046
Class/Division 2.2 (Non-Flammable Gas)
Subsidiary risk None
UN proper shipping name Helium, compressed
IMO/IATA shipping label



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:
 - compliance with applicable regulations;
 - 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 and
 - there is adequate ventilation.
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15 REGULATORY INFORMATION

General ▶ Singapore's Factories Act 2000, Sections 14, 34, 44 & 60A.
▶ Singapore Standards:

- CP 12:2000 Part 1
- CP 98:2003
- SS 152:2003
- SS 286:1984 Part 1 to Part 5

Risk and safety phrases ▶ S51 – Use only in well ventilated area.

16 OTHER INFORMATION

General ▶ Ensure all local regulations or legislations are observed.
▶ Asphyxiant in high concentrations. Keep container in a well-ventilated place. Do not breathe gas.
▶ The hazard of asphyxiation is often overlooked and must be stressed before use.
▶ 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 revising.
▶ 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 is for information purposes only and is subjected to change without notice.

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