



# Safety Data Sheet

Document No: SOXAL/SDS/76  
Revision No: Rev. 1  
Revision Date: 01 Jan. 08  
Issue/Print Date:

## BLUESHIELD™ 50P

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Commercial name: BLUESHIELD 50P  
Product name: Helium in Argon  
Chemical name/formula: He in Ar  
Company identification: See header and footer  
Emergency phone no.: See footer

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Preparation: Substance  
Components/Impurities: Helium: 30 – 60%  
Argon: 40 – 70%  
CAS No.: 7440-59-7 Helium  
7440-37-1 Argon

### 3. HAZARDS IDENTIFICATION

General: Non-flammable compressed gas.  
In high concentrations may cause asphyxiation.

### 4. FIRST-AID MEASURES

Inhalation: 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: No adverse effects anticipated.  
Ingestion: Ingestion is not considered a potential route of exposure.

### 5. FIRE-FIGHTING MEASURES

Specific hazards: Exposure to fire may cause containers to rupture or explode.  
Hazardous combustion products: None.  
Suitable extinguishing media: All known extinguishants can be used.  
Specific methods: If possible, stop flow of product.  
Move container away or cool with water from a protected position.  
Special protective equipment (for fire fighters): In confined space, use a 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.

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Personal precautions: Ensure adequate air ventilation.  
Environmental precautions: Try to stop release.  
Clean up methods: Ventilate area.

### 7. HANDLING & STORAGE

General: 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 SOXAL's booklet on "safe handling, transport and storage of compressed gas cylinder" or contact SOXAL if in doubt.

### 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure limit value: None  
Personal protection: Ensure adequate ventilation.

### 9. PHYSICAL & CHEMICAL PROPERTIES

Molecular weight: Not applicable  
Melting point: - 235°C  
Boiling point: Not applicable  
Critical temperature: - 122°C (Argon)  
Relative density, gas: 0.76 (air = 1)  
Relative density, liquid: Not applicable  
Vapour pressure @ 20°C: Not applicable  
Solubility mg/l water: Not applicable  
Appearance/Colour: Colourless gas  
Odour: No odour warning properties  
Auto-ignition temperature: Not applicable  
Flammability range: Not flammable  
Others: Gas or vapour is heavier than air. May accumulate in confined space, particularly at or below ground level.

### 10. STABILITY & REACTIVITY

General: Stable under normal conditions.

### 11. TOXICOLOGICAL INFORMATION

General: No known toxicological effects from this product.

For product and/or safety enquiry, please send, call, fax or log on to:

SINGAPORE OXYGEN AIR LIQUIDE PTE LTD

16, Jalan Buroh, Singapore 619475.

Tel: (65) 6265 3788 or 6265 4555 Fax: (65) 6265 1441 or 6268 8403 Website: [www.soxal.com](http://www.soxal.com) Business Registration No: 197001157D



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### 12. ECOLOGICAL INFORMATION

- General**
- No known ecological effects from this product.

### 13. DISPOSAL CONSIDERATIONS

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

### 14. TRANSPORT INFORMATION

**UN No.** 1956  
**Class/Division** 2.2 (Non-Flammable Gas)  
**Subsidiary risk** None  
**UN proper shipping name** Compressed Gas, N.O.S (Helium in Argon)  
**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.

### 15. REGULATORY INFORMATION

- General**
- Singapore's WSH (General Provisions) Regulations, Sections 42 & 43.
  - 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**
- S09 – Keep container in a well ventilated place.
  - 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.

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