SAFETY DATA SHEET

Product: Helium/Oxygen <21% Mixture  
MSDS Nr: 0008  
Dated: 18/12/09

1 IDENTIFICATION OF THE SUBSTANCE PREPARATION AND OF THE COMPANY

Product Name: Heliox  
Company Identification: See heading and/or footer  
Emergency phone numbers: See heading and/or footer  
Chemical Formula: He, O2

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance Preparation: Preparation  
Components/Impurities: Contains less than 21% Oxygen (O: R8A)  
CAS Nr: 07440-59-7, 07782-44-7  
EEC Nr (from EINECS): 231-168-5, 231-956-9

3 HAZARDS IDENTIFICATION

Hazard Identification: High concentration with low level of Oxygen may cause asphyxiation. Compressed Gas.

4 FIRST AID MEASURES

Inhalation: Continuous inhalation may cause nausea, dizziness respiratory difficulty.  
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: Non-flammable  
Suitable extinguishing media: All known extinguishers 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: None

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate area  
Ensure adequate air ventilation  
Eliminate ignition sources

Environmental precautions: Try to stop release  
Clean up methods: Ventilate area

7 HANDLING AND STORAGE

Handling and storage: Use no oil or grease  
Open valve slowly to avoid pressure shock  
Segregate from flammable gases and other flammable materials in store.  
Suck back of water into the container must prevent ed  
Do not allow back feed 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. Keep away from ignition sources (including static discharges)  
Refer to supplier’s container handling instructions.  
Keep container below 50°C in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection: Do not smoke while handling product  
Ensure adequate ventilation

9 PHYSICAL AND CHEMICAL PROPERTIES

Relative density, gas: Lighter or similar to air  
Solubility mg/l water: Not known  
Appearance/Colour: Colourless gas  
Odour: None

10 STABILITY AND REACTIVITY

Stability and reactivity: Stable under normal conditions.

EMERGENCY CONTACT INFORMATION

Global Headquarters - Dominion Gas Ltd, Dominion Building, Howemoss Avenue, Kirkhill Industrial Estate, Dyce, Aberdeen AB21 0GP - GAS Tel: + 44 1224 771181

Argon Isotanks Ltd, Aberdeen – Maersk House, Crawpeel Rd, Altens Industrial Estate, Aberdeen AB12 3LG - TANKS Tel: + 44 1224 230530

Dominion Oilfield Services, Ghana - Axim Road, Dسوق Island, Takoradi South, Ghana. Tel: + 233 31 23272

Dominion Gas Norge, Stavanger - 4070 Rundaberg, Stavanger, Norway Tel: + 47 51 41 36 50

Dominion Gas Asia Pacific, Singapore - 21 Tanjong Kling Road, Singapore 628047 Tel: + 65 6663 7279
11 **TOXICOLOGICAL INFORMATION**

**General**
No toxicological effects from this product

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12 **ECOLOGICAL INFORMATION**

**General**
No known ecological damage caused by this product

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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.

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14 **TRANSPORT INFORMATION**

**UN Nr**
1956

**Proper Shipping Name**
Compressed Gas, N.O.S.

**Class/Div**
2.2 (Non-flammable, non toxic gases)

**EMS Code**
F-C, S-V

**Labelling ADR**
Label 2: non flammable, non-toxic gas

**Other transport information**
Avoid transport on vehicles where the load space is not separated from the drivers 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
- There is adequate ventilation
- Compliance with applicable regulations

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15 **REGULATORY INFORMATION**

**Labelling of cylinders**
Symbols
Label 2 - non flammable non toxic gas

**Risk Phrases**
Cylinders under pressure

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16 **OTHER INFORMATION**

Ensure all national/local regulations are observed
Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out
Details given, no liability for injury or damage resulting from its use can be accepted.