

**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 INGREDIENTS**

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

**3 HAZARDS IDENTIFICATION**

**Hazards 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.  
Non-flammable  
**Hazardous combustion products** None  
**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 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. 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° 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, Dixcove Hill, Takoradi South, Ghana. Tel: + 233 31 23272*

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

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**Product: Helium/Oxygen <21% Mixture****MSDS Nr: 0008****Dated: 18/12/09****11 TOXICOLOGICAL INFORMATION****General** No toxicological effects from this product**12 ECOLOGICAL INFORMATION****General** No known ecological damage caused by this product**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.**14 TRANSPORT INFORMATION**

<b>UN Nr</b>	1956
<b>Proper Shipping Name</b>	Compressed Gas, N.O.S.
<b>Class/Div</b>	2.2 (Non-flammable, non toxic gases)
<b>EMS Code</b>	F-C, S-V
<b>Labelling ADR</b>	Label 2: non flammable, non-toxic gas
<b>Other transport information</b>	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:- <ul style="list-style-type: none"><li>- Cylinder valve is closed and not leaking</li><li>- Valve outlet cap nut or plug (where provided) is correctly fitted</li><li>- Valve protection device (where provided) is correctly fitted</li><li>- There is adequate ventilation</li><li>- Compliance with applicable regulations</li></ul>

**15 REGULATORY INFORMATION****Labelling of cylinders****Symbols** Label 2 - non flammable non toxic gas**Risk Phrases** Cylinders under pressure**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.**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, Dixcove Hill, Takoradi South, Ghana. Tel: + 233 31 23272****Dominion Gas Norge, Stavanger - 4070 Randaberg, Stavanger, Norway Tel: + 47 51 41 36 50****Dominion Gas Asia Pacific, Singapore - 21 Tanjong Kling Road, Singapore 628047 Tel: + 65 6663 7279**