


 Islam Oxygen Limited	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG. 016
		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
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<h2>Helium</h2>			

<b>1 – PRODUCT AND COMPANY IDENTIFICATION</b>	
<b>1.1 PRODUCT IDENTIFIER :</b>	
<b>1.1.1 PRODUCT NAME</b>	Helium
<b>1.1.2 SYNONYMS</b>	Helium (dot); Helium-4; He; o-Helium; UN 1046, Helium USP
<b>1.1.3 CAS NUMBER</b>	7440-59-7
<b>1.1.4 CHEMICAL FORMULA</b>	He
<b>1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST :</b>	
<b>1.2.1 RELEVANT IDENTIFIED USES</b>	Synthetic/Analytical chemistry.
<b>1.3 DETAILS OF THE SUPPLIER :</b>	
<b>1.3.1 COMPANY IDENTIFICATION</b>	Islam Oxygen Limited
<b>1.4 EMERGENCY TELEPHONE NUMBER :</b>	
<b>1.4.1 EMERGENCY PHONE NUMBER(S)</b>	+8801755 66 03 29
<b>2 – HAZARD(S) IDENTIFICATION</b>	
<b>2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE :</b> Substance	
<b>2.2 LABEL ELEMENTS :</b>	
<b>2.2.1 LABELING PICTOGRAMS</b>	
<b>2.2.2 SIGNAL WORD</b>	Warning

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<b>2.2.3 HAZARD STATEMENT</b>	Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
<b>2.2.4 PRECAUTIONARY STATEMENT</b>	Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction.
<b>3 – COMPOSITION/INFORMATION ON INGREDIENTS</b>	
<b>3.1 SUBSTANCES :</b>	
<b>3.1.1 CHEMICAL IDENTITY OF THE SUBSTANCE</b>	Helium
<b>3.1.2 COMMON NAME(S)/ SYNONYM(S)</b>	Helium (dot); Helium-4; He; o-Helium; UN 1046,Helium USP
<b>3.1.3 CAS NO.</b>	
<b>3.2 MIXTURES :</b> Helium - 100%	
<b>4 – FIRST AID MEASURES</b>	
<b>4.1 DESCRIPTION OF FIRST AID MEASURES :</b>	
<b>4.1.1 INHALATION</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.

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4.1.2 SKIN CONTACT	Flush skin with plenty of water. Ensure to remove contaminated clothing and shoes. If symptom occurs, get medical attention. Wash clothes and clean shoes before reuse
4.1.3 EYE CONTACT	Flash eyes with plenty of water and rinse for at least 10 minutes. Check and remove any contact lenses. If symptom occurs, get medical attention.
4.1.4 INGESTION	Ingestion is not considered a potential route of exposure.
<b>5 – FIRE FIGHTING MEASURES</b>	
<b>5.1 EXTINGUISHING MEDIA :</b>	
5.1.1 SUITABLE EXTINGUISHING MEDIA	Use extinguishing media appropriate for surrounding fire.
<b>5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL :</b>	
5.2.1 DURING FIRE	No additional information available
<b>5.3 ADVICE FOR FIRE FIGHTERS :</b>	
5.3.1 FIRE FIGHTING INSTRUCTIONS	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
5.3.2 PROTECTION DURING FIRE FIGHTING	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>6 – ACCIDENTAL RELEASE MEASURES</b>	
<b>6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES :</b>	

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<p><b>6.1.1 GENERAL MEASURES</b></p>	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
<p><b>6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL</b></p>	<p>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".</p>
<p><b>6.2 ENVIRONMENTAL PRECAUTIONS :</b></p> <p>Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>	
<p><b>6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP :</b></p> <p>Immediately contact emergency personnel. Stop leak if without risk.</p>	
<p><b>7 – HANDLING AND STORAGE</b></p>	
<p><b>7.1 PRECAUTION FOR SAFE HANDLING :</b></p> <p>Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.</p>	
<p><b>7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :</b></p>	

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<b>7.2.1 SAFE REQUIREMENTS</b>	<b>STORAGE</b>	Store in accordance with local regulations. Store in a segregated and approved area. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).
<b>7.2.2 KEEP AWAY FROM</b>		Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).
<b>8 – EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
<b>8.1 CONTROL PARAMETERS :</b>		
<b>8.1.1 OCCUPATIONAL EXPOSURE :</b> Exposure limits: Oxygen Depletion [Asphyxiant]		
<b>8.2 EXPOSURE CONTROLS :</b>		
<b>8.2.1 APPROPRIATE ENGINEERING CONTROLS</b>		Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>8.2.2 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT :</b>		
<b>8.2.2.1 RESPIRATORY PROTECTION</b>		Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>8.2.2.2 HAND PROTECTION</b>		Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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<b>8.2.2.3 EYE PROTECTION</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
<b>8.2.2.4 SKIN PROTECTION</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>8.3 ENVIRONMENTAL EXPOSURE CONTROLS</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
<b>9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :</b>	
<b>9.1.1 PHYSICAL STATE</b>	Gas
<b>9.1.2 APPEARANCE</b>	Colourless gas
<b>9.1.3 MOLECULAR MASS</b>	4 g/mole
<b>9.1.4 COLOR</b>	Colourless gas
<b>9.1.5 ODOR</b>	Odorless
<b>9.1.6 MELTING POINT</b>	-272.2°C (-458°F)
<b>9.1.7 FREEZING POINT</b>	-272.2°C (-458°F)
<b>9.1.8 BOILING POINT</b>	-268.9 °C (-452°F)
<b>9.1.9 CRITICAL TEMPERATURE</b>	-267.9 °C (-450.2°F)
<b>10 – STABILITY AND REACTIVITY</b>	
<b>10.1 REACTIVITY</b>	No specific test data related to reactivity
<b>10.2 CHEMICAL STABILITY</b>	Stable under normal conditions

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<b>10.3 HAZARDOUS DECOMPOSITION PRODUCTS</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>11 – TOXICOLOGICAL INFORMATION</b>	
<b>11.1 INFORMATION ON TOXICOLOGICAL EFFECTS :</b>	
<b>11.1.1 ACUTE TOXICITY</b>	Not Available
<b>11.1.2 CORROSION/ IRRITATION</b>	Not Available
<b>11.1.3 RESPIRATORY/SKIN SENSITIZATION</b>	Not Available
<b>11.1.4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)</b>	Not Available
<b>11.1.5 MUTAGENICITY</b>	Not Available
<b>11.1.6 CARCINOGENICITY</b>	Not Available
<b>11.1.7 REPRODUCTIVE TOXICITY</b>	Not Available
<b>11.1.8 CHRONIC EFFECTS FROM SHORT TERM AND LONG-TERM EXPOSURE</b>	Not Available
<b>12 – ECOLOGICAL INFORMATION</b>	
<b>12.1 TOXICITY</b>	Not Available
<b>12.2 PERSISTENCE AND DEGRADABILITY</b>	Not Available
<b>13 – DISPOSAL CONSIDERATIONS</b>	

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<b>13.1 WASTE TREATMENT METHODS :</b>	
<b>13.1.1 DISPOSAL METHODS</b>	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. Dispose in accordance to the local/ regional/ national/ international regulations
<b>14 – TRANSPORT INFORMATION</b>	
<b>14.1 ROAD (ADR) :</b>	
<b>14.1.1 UN NUMBER</b>	UN1046
<b>14.1.2 UN PROPER SHIPPING NAME</b>	HELIUM, COMPRESSED
<b>14.1.3 CLASS</b>	
<b>14.1.3.1 CLASSIFICATION CODE</b>	2.2
<b>14.1.4 PACKING GROUP :</b>	
<b>14.1.4.1 LABELS</b>	2.2: Nonflammable nontoxic gas
<b>14.1.5 ENVIRONMENTAL HAZARDS :</b>	
<b>14.1.5.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK</b>	NO
<b>14.1.6 SPECIAL PRECAUTIONS FOR USER :</b>	
<b>14.1.6.1 SPECIAL PROVISIONS</b>	Yes.
<b>14.1.6.2 LIMITED QUANTITIES</b>	<p><b><u>Packaging instruction</u></b>  Passenger aircraft Quantity limitation: 75 kg</p> <p><b><u>Cargo aircraft</u></b>  Quantity limitation: 150 kg</p>

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<h3>15 – REGULATORY INFORMATION</h3>	
<b>15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE</b>	EC Classification : Not classified as dangerous preparation. Labeling of cylinders : Symbols Label 2.2: nonflammable nontoxic gas
<h3>16 – OTHER INFORMATION :</h3>	

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