


	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG . 016
		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
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<h2>INDUSTRIAL LIQUID OXYGEN</h2>			


1 – PRODUCT AND COMPANY IDENTIFICATION	
1.1 PRODUCT IDENTIFIER :	
1.1.1 PRODUCT NAME	Oxygen, Refrigerated Liquid
1.1.2 SYNONYMS	Liquid Oxygen; LOX; Liquid Oxygen USP
1.1.3 CAS NUMBER	7782-44-7
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST :	
1.2.1 RELEVANT IDENTIFIED USES	Synthetic/Analytical chemistry.
1.3 DETAILS OF THE SUPPLIER :	
1.3.1 COMPANY IDENTIFICATION	Islam Oxygen Limited
1.4 EMERGENCY TELEPHONE NUMBER :	
1.4.1 EMERGENCY PHONE NUMBER(S)	+8801755 66 03 29
2 – HAZARD(S) IDENTIFICATION	
2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE :	
OXIDIZING GASES - Category 1 GASES UNDER PRESSURE - Refrigerated liquefied gas Compressed gas	
2.2 LABEL ELEMENTS :	
2.2.1 LABELING PICTOGRAMS	 

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2.2.2 SIGNAL WORD	Danger
2.2.3 HAZARD STATEMENT	May cause or intensify fire; oxidizer. Contains refrigerated gas; may cause cryogenic burns or injury. May cause frostbite. Combustibles in contact with Liquid Oxygen may explode on ignition or impact.
2.2.4 PRECAUTIONARY STATEMENT	Read and follow all Safety Data Sheets (SDS) 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 preventive device in the piping. Use only equipment of compatible materials of construction. Open valve slowly. Use only with equipment cleaned for Oxygen service. Always keep container in upright position. Do not change or force fit connections. Avoid spills. Do not walk or roll equipment over spills.
2.3 OTHER HAZARDS:	Liquid can cause burns similar to frostbite.
3 – COMPOSITION/INFORMATION ON INGREDIENTS	
3.1 SUBSTANCES :	
3.1.1 CHEMICAL IDENTITY OF THE SUBSTANCE	Substance
3.1.2 COMMON SYNONYM(S) NAME(S)/	Liquid Oxygen; LOX; Liquid Oxygen USP
3.1.3 CAS NO.	7782-44-7

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<p>3.1.4 IMPURITIES AND STABILIZING ADDITIVES WHICH ARE THEMSELVES CLASSIFIED AND WHICH CONTRIBUTE TO THE CLASSIFICATION OF THE SUBSTANCE</p>	<p>There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.</p>
<p>3.2 MIXTURES :</p> <p>Oxygen – 100%</p>	
<p>4 – FIRST AID MEASURES</p>	
<p>4.1 DESCRIPTION OF FIRST AID MEASURES :</p>	
<p>4.1.1 INHALATION</p>	<p>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. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
<p>4.1.2 SKIN CONTACT</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
<p>4.1.3 EYE CONTACT</p>	<p>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</p>

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4.1.4 INGESTION	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. As this product rapidly becomes a gas when released, refer to the inhalation section.</p>
4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED :	
4.2.1 ACUTE SYMPTOMS AND EFFECTS	<p>Extremely cold material. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.</p>
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED :	
<p>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</p>	
5 – FIRE FIGHTING MEASURES	
5.1 EXTINGUISHING MEDIA :	
5.1.1 SUITABLE EXTINGUISHING MEDIA	<p>Use an extinguishing agent suitable for the surrounding fire.</p>
5.1.2 UNSUITABLE EXTINGUISHING MEDIA	<p>None known.</p>
5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL :	
5.2.1 DURING FIRE	<p>Contains gas under pressure. Contains refrigerated gas. Oxidizing material. This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire.</p>
5.2.2 DURING EXPLOSION	<p>In a fire or if heated, a pressure increase will occur and the container may burst or explode.</p>

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5.3 ADVICE FOR FIRE FIGHTERS :	
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.
5.3.2 PROTECTION DURING FIRE FIGHTING	Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
5.3.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.
6 – ACCIDENTAL RELEASE MEASURES	
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES :	
6.1.1 GENERAL MEASURES	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation.
6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL	Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
6.1.3 PROTECTIVE EQUIPMENT FOR EMERGENCY RESPONDERS	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
6.2 ENVIRONMENT PRECAUTIONS:	
Ensure emergency procedures to deal with accidental gas releases are in place to avoid	

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contamination of the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP :

Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

7 – HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING :

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Contains refrigerated gas. Do not get in eyes or on skin or clothing. Avoid breathing gas. Keep away from clothing, incompatible materials and combustible materials. Keep reduction valves free from grease and oil. 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. Never allow any unprotected part of the body to touch uninsulated pipes or vessels that contain cryogenic liquids. Prevent entrapment of liquid in closed systems or piping without pressure relief devices. Some materials may become brittle at low temperatures and will easily fracture.

7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :

7.2.1 SAFE STORAGE REQUIREMENTS

Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials. 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).


7.2.2 KEEP AWAY FROM

Separate from acids, alkalis, reducing agents and combustibles. Keep container tightly closed and sealed until ready for use.

8 – EXPOSURE CONTROLS/PERSONAL PROTECTION


8.1 CONTROL PARAMETERS :

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8.1.1 OCCUPATIONAL EXPOSURE : None.	
8.2 EXPOSURE CONTROLS :	
8.2.1 APPROPRIATE ENGINEERING CONTROLS	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
8.2.2 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT :	
8.2.2.1 RESPIRATORY PROTECTION	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.
8.2.2.2 HAND PROTECTION	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. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
8.2.2.3 EYE PROTECTION	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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.

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8.2.2.4 SKIN PROTECTION	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.
8.3 ENVIRONMENTAL EXPOSURE CONTROLS	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
9- PHYSICAL AND CHEMICAL PROPERTIES	
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :	
9.1.1 PHYSICAL STATE	Cryogenic Liquid
9.1.2 APPEARANCE	Colorless. Blue.
9.1.3 MOLECULAR MASS	32 g/mole
9.1.4 COLOR	Colorless. Blue.
9.1.5 ODOR	Odorless.
9.1.6 MELTING POINT	-218.4°C (-361.1°F)
9.1.7 FREEZING POINT	-218.4°C (-361.1°F)
9.1.8 BOILING POINT	-183°C (-297.4°F)
9.1.9 FLAMMABILITY (SOLID / GAS)	Extremely flammable in the presence of the following materials or conditions: reducing materials, combustible materials and organic materials.
9.1.10 RELATIVE VAPOR DENSITY	1.1 (Air = 1)
9.1.11 RELATIVE GAS DENSITY	0.83 lb/ft ³
1 - STABILITY AND REACTIVITY	

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10.1 REACTIVITY	No specific test data related to reactivity available for this product or its ingredients.
10.2 CHEMICAL STABILITY	The product is stable.
10.3 POSSIBILITY OF HAZARDOUS REACTION	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 CONDITIONS TO AVOID	No specific data.
10.5 INCOMPATIBLE MATERIALS	Highly reactive or incompatible with the following materials: combustible materials, reducing materials, grease, oil
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
2 – TOXICOLOGICAL INFORMATION	
11.1 INFORMATION ON TOXICOLOGICAL EFFECTS :	
11.1.1 ACUTE TOXICITY	Not Available.
11.1.2 CORROSION/ IRRITATION	Not Available.
11.1.3 RESPIRATORY/SKIN SENSITIZATION	Not Available.
11.1.4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	Not Available.
11.1.5 MUTAGENICITY	Not Available.
11.1.6 CARCINOGENICITY	Not Available.
11.1.7 REPRODUCTIVE TOXICITY	Not Available.
11.1.8 CHRONIC EFFECTS FROM SHORT TERM AND LONG-TERM EXPOSURE	Not Available.
3 – ECOLOGICAL INFORMATION	

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12.1 TOXICITY	Not available.
12.2 PERSISTENCE AND DEGRADABILITY	Not available.
12.3 BIO ACCUMULATIVE POTENTIAL	LogP _{ow} : 0.65 BCF: - Potential: low
12.4 MOBILITY IN SOIL	Not available.
13 – DISPOSAL CONSIDERATIONS	
13.1 WASTE TREATMENT METHODS :	
13.1.1 PROVISION RELATING TO WASTE	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
13.1.2 DISPOSAL METHODS	Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
13.1.3 PACKAGING/ CONTAINER	Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.
14 – TRANSPORT INFORMATION	
14.1 ROAD (ADR) :	
14.1.1 UN NUMBER	UN1073
14.1.2 UN PROPER SHIPPING NAME	Oxygen, Refrigerated Liquid

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14.1.3	TRANSPORT HAZARD CLASS (ES) :	2.2 (5.1)
	14.1.3.1 HAZARD IDENTIFICATION NUMBER	225
14.1.4	SPECIAL PRECAUTIONS FOR USER :	
	14.1.4.1 SPECIAL PROVISIONS	A52
	14.1.4.2 LIMITED QUANTITIES	Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: 75 kg Cargo aircraft Quantity limitation: 150 kg
14.2 SEA (IMDG/IMSBC) :		
14.2.1	UN NUMBER	UN1073
14.2.2	UN PROPER SHIPPING NAME	Oxygen, Refrigerated Liquid
14.2.3	TRANSPORT HAZARD CLASS (ES) :	2.2 (5.1)
	14.2.3.1 CLASS	225
14.3 AIR (ICAO-TI/IATA-DGR) :		
14.3.1	UN NUMBER	UN1073
14.3.2	UN PROPER SHIPPING NAME	Oxygen, Refrigerated Liquid
14.3.3	TRANSPORT HAZARD CLASS (ES) :	
	14.3.3.1 CLASS	2.2 (5.1)
14.3.4	SPECIAL PRECAUTIONS FOR USER :	Always transport in closed containers that are upright and secure. Ensure that person transporting the product know what to do in the event of an accident or spillage.

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14.3.4.1 PASSENGER AND CARGO TRANSPORT, LIMITED QUANTITIES, MAXIMUM NET QUANTITY PER PACKAGING	Passenger and Cargo Aircraft Quantity limitation: 75 kg Cargo Aircraft Only Quantity limitation: 150 kg
15 – REGULATORY INFORMATION	
15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted. United States inventory (TSCA 8b): This material is listed or exempted.
16 – OTHER INFORMATION :	
<p style="color: blue;">Canada Label requirements :</p> Class A: Compressed gas. Class C: Oxidizing material.	

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