


	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG . 016
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<h2>Carbon Di-Oxide</h2>			

1 – PRODUCT AND COMPANY IDENTIFICATION	
1.1 PRODUCT IDENTIFIER :	
1.1.1 PRODUCT NAME	Carbon dioxide
1.1.2 SYNONYMS	Carbonic, Carbon Dioxide, Carbonic Anhydride, R744, Carbon Dioxide USP
1.1.3 CAS NUMBER	124-38-9
1.1.4 CHEMICAL FORMULA	CO ₂
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 NUMBER(S) PHONE	+8801755 66 03 29
2 – HAZARD(S) IDENTIFICATION	
2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE :	
GASES UNDER PRESSURE - Liquefied gas Simple asphyxiant.	
2.2 LABEL ELEMENTS :	
2.2.1 LABELING PICTOGRAMS	

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2.2.2 SIGNAL WORD	Warning
2.2.3 HAZARD STATEMENT	Contains gas under pressure; may explode if heated. May cause frostbite. May displace oxygen and cause rapid suffocation. May increase respiration and rate.
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 preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position.
3 – COMPOSITION/INFORMATION ON INGREDIENTS	
3.1 SUBSTANCES :	
3.1.1 CHEMICAL IDENTITY OF THE SUBSTANCE	Substance
3.1.2 COMMON NAME(S)/SYNONYM(S)	Carbon Dioxide
3.1.3 CAS NO.	124-38-9
3.1.4 IMPURITIES AND STABILIZING ADDITIVES WHICH ARE THEMSELVES CLASSIFIED AND WHICH CONTRIBUTE TO THE CLASSIFICATION OF THE SUBSTANCE	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.
3.2 MIXTURES :	
Carbon Dioxide: 100%	

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4 – FIRST AID MEASURES	
4.1 DESCRIPTION OF FIRST AID MEASURES :	
4.1.1 INHALATION	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.
4.1.2 SKIN CONTACT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
4.1.3 EYE CONTACT	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 if irritation occurs.
4.1.4 INGESTION	As this product is a gas, refer to the inhalation section.
4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED :	
4.2.1 ACUTE SYMPTOMS AND EFFECTS	No known significant effects or critical hazards.
4.2.2 DELAYED SYMPTOMS AND EFFECTS	No known significant effects or critical hazards.

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4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED :

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 – FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA :

5.1.1 SUITABLE EXTINGUISHING MEDIA

Use an extinguishing agent suitable for the surrounding fire.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL :

5.2.1 DURING FIRE

In a fire or if heated, a pressure increase will occur and the container may burst or explode.

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. 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.

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.

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<p>6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL</p>	<p>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>6.1.3 PROTECTIVE EQUIPMENT FOR EMERGENCY RESPONDERS</p>	<p>If specialized 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>6.2 ENVIRONMENTAL PRECAUTIONS :</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>6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP :</p> <p>Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.</p>	
<p>7 – HANDLING AND STORAGE</p>	
<p>7.1 PRECAUTION FOR SAFE HANDLING :</p> <p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.</p>	
<p>7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :</p>	
<p>7.2.1 SAFE STORAGE REQUIREMENTS</p>	<p>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).</p>

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7.2.2 KEEP AWAY FROM	Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials
8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 CONTROL PARAMETERS :	
8.1.1 OCCUPATIONAL EXPOSURE :	
<p>ACGIH TLV (United States, 3/2015). Oxygen Depletion [Asphyxiant]. STEL: 54000 mg/m³ 15 minutes. STEL: 30000 ppm 15 minutes. TWA: 9000 mg/m³ 8 hours. TWA: 5000 ppm 8 hours.</p> <p>NIOSH REL (United States, 10/2013). STEL: 54000 mg/m³ 15 minutes. STEL: 30000 ppm 15 minutes. TWA: 9000 mg/m³ 10 hours. TWA: 5000 ppm 10 hours.</p> <p>OSHA PEL (United States, 2/2013). TWA: 9000 mg/m³ 8 hours. TWA: 5000 ppm 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). STEL: 54000 mg/m³ 15 minutes. STEL: 30000 ppm 15 minutes. TWA: 18000 mg/m³ 8 hours. TWA: 10000 ppm 8 hours.</p>	
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 :	

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8.2.2.1 RESPIRATORY PROTECTION	<p>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.</p>
8.2.2.2 HAND PROTECTION	<p>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.</p>
8.2.2.3 EYE PROTECTION	<p>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.</p>
8.2.2.4 SKIN PROTECTION	<p>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.</p>
8.3 ENVIRONMENTAL EXPOSURE CONTROLS	<p>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.</p>
9 – PHYSICAL AND CHEMICAL PROPERTIES	
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :	
9.1.1 PHYSICAL STATE	Gas. [Liquefied compressed gas.]

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9.1.2 APPEARANCE	Colorless
9.1.3 MOLECULAR MASS	44.01 g/mole
9.1.4 COLOR	Colorless.
9.1.5 ODOR	Odorless
9.1.6 MELTING POINT	Sublimation temperature: -79°C (-110.2 to °F)
9.1.7 FREEZING POINT	Sublimation temperature: -79°C (-110.2 to °F)
9.1.8 CRITICAL TEMPERATURE	30.85°C (87.5°F)
9.1.9 VAPOR PRESSURE	830 (psig)
9.1.10 RELATIVE DENSITY	0.114 lb/ft ³
10 – STABILITY AND REACTIVITY	
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	No specific data.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
11 – TOXICOLOGICAL INFORMATION	
11.1 INFORMATION ON TOXICOLOGICAL EFFECTS :	
11.1.1 ACUTE TOXICITY	Not available. IDLH : 40000 ppm

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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.
12 – ECOLOGICAL INFORMATION		
12.1	TOXICITY	Not available.
12.2	PERSISTENCE AND DEGRADABILITY	Not available.
12.3	BIO ACCUMULATIVE POTENTIAL	LogPow - 0.83 BCF – none 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.

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13.1.2 DISPOSAL METHODS	<p>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. 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.</p>
14 – TRANSPORT INFORMATION	
14.1 ROAD (ADR) :	
14.1.1 UN NUMBER	1013
14.1.2 UN PROPER SHIPPING NAME	CARBON DIOXIDE
14.1.3 TRANSPORT HAZARD CLASS (ES) :	
14.1.3.1 HAZARD IDENTIFICATION NUMBER	20
14.1.4 SPECIAL PRECAUTIONS FOR USER :	
14.1.4.1 SPECIAL PROVISIONS	Passenger aircraft Quantity limitation: 75 kg Cargo aircraft Quantity limitation: 150 kg
14.1.4.2 LIMITED QUANTITIES	Yes
14.2 SEA (IMDG/IMSBC) :	
14.2.1 UN NUMBER	1013
14.2.2 UN PROPER SHIPPING NAME	CARBON DIOXIDE

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14.2.3 TRANSPORT HAZARD CLASS (ES) :	
14.2.3.1 CLASS	2.2
14.3 AIR (ICAO-TI/IATA-DGR) :	
14.3.1 UN NUMBER	1013
14.3.2 UN PROPER SHIPPING NAME	CARBON DIOXIDE
14.3.3 TRANSPORT HAZARD CLASS (ES) :	
14.3.3.1 CLASS	2.2
14.3.4 SPECIAL PRECAUTIONS FOR USER :	
14.3.4.1 SPECIAL PROVISIONS	
14.3.4.2 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	This material is not listed. EU Legislation. Seveso Directive 96/82 EC.
16 – OTHER INFORMATION :	
Asphyxiant in high concentrations. Receptacle under pressure. May cause frostbite. Keep container in a well-ventilated place. Do not breathe the gas. Ensure all national/local regulations are observed. The hazard of asphyxiation is often overlooked and must be stressed during operator training.	

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