

 www.sharjahoxygen.com	<h1>SAFETY DATA SHEET</h1> <h2>AIR</h2>	SDS NO.	PG - 016
		DATE OF ISSUE	22/09/2009
		DATE LAST UPDATED	31/10/2016
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1 - PRODUCT AND COMPANY IDENTIFICATION	
1.1 PRODUCT IDENTIFIER :	
1.1.1 PRODUCT NAME	Air
1.1.2 SYNONYMS	Compressed Air; Breathing Quality Air; synthetic air, reconstituted air, medical air, medical air USP.
1.1.3 CAS NUMBER	Nitrogen: 7727-37-9 Oxygen: 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	Sharjah Oxygen Company
1.4 EMERGENCY TELEPHONE NUMBER :	
1.4.1 EMERGENCY PHONE NUMBER(S)	+971-6-5336481
2 - HAZARD(S) IDENTIFICATION	
2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE :	
GASES UNDER PRESSURE - Compressed gas	
2.1 LABEL ELEMENTS :	
2.2.1 LABELING PICTOGRAMS	
2.2.2 SIGNAL WORD	Warning

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2.2.3 HAZARD STATEMENT	Contains gas under pressure; may explode if heated. May support combustion.
2.2.4 PRECAUTIONARY STATEMENT	Read and follow all Safety Data Sheets (SDSs) 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.
3 – COMPOSITION/INFORMATION ON INGREDIENTS	
3.1 SUBSTANCES :	
3.1.1 CHEMICAL IDENTITY OF THE SUBSTANCE	Mixture
3.1.2 COMMON NAME(S)/SYNONYM(S)	Air
3.1.3 CAS NO.	Nitrogen: 7727-37-9 Oxygen: 7782-44-7
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 :	
Nitrogen: 7727-37-9 Oxygen: 7782-44-7	
4 – FIRST AID MEASURES	
4.1 DESCRIPTION OF FIRST AID MEASURES :	

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4.1.1 INHALATION	"None expected"
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	Contact with rapidly expanding gas may cause burns or frostbite.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED :	
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
5 - FIRE FIGHTING MEASURES	
5.1 EXTINGUISHING MEDIA :	
5.1.1 SUITABLE EXTINGUISHING MEDIA	Use an extinguishing agent suitable for the surrounding fire.
5.1.2 UNSUITABLE EXTINGUISHING MEDIA	None known.
5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL :	
5.2.1 DURING FIRE	Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
5.2.2 DURING REACTIVITY	Decomposition products may include the following materials: nitrogen oxides

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5.3 ADVICE FOR FIRE FIGHTERS :	
5.3.1 FIRE INSTRUCTIONS FIGHTING	<p>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.</p>
5.3.2 SPECIAL EQUIPMENT FOR FIGHTERS PROTECTIVE FOR FIRE	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
6 – ACCIDENTAL RELEASE MEASURES	
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES :	
6.1.1 GENERAL MEASURES	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.</p>
6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL	<p>Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
6.1.3 PROTECTIVE EQUIPMENT FOR EMERGENCY RESPONDERS	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.</p>
6.2 ENVIRONMENT PRECAUTIONS:	
<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>	
6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP :	
<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>	

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7 – HANDLING AND STORAGE	
7.1 PRECAUTIONS FOR SAFE HANDLING :	
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. See also Section 8 for additional information on hygiene measures.	
7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :	
7.2.1 SAFE REQUIREMENTS STORAGE	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).
7.2.2 KEEP AWAY FROM	Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).
8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 CONTROL PARAMETERS :	
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

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	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. 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.
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 CONTROLS	EXPOSURE
	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.

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9 – PHYSICAL AND CHEMICAL PROPERTIES	
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :	
9.1.1 PHYSICAL STATE	Gas
9.1.2 APPEARANCE	Colorless Gas
9.1.3 COLOR	Colorless
9.1.4 ODOR	Odorless
9.1.5 MELTING POINT	-216.2°C (-357.2°F)
9.1.6 FREEZING POINT	-216.2°C (-357.2°F)
9.1.7 BOILING POINT	-194.3°C (-317.7°F)
9.1.8 CRITICAL TEMPERATURE	Lowest known value: -146.95°C (-232.5°F) (nitrogen).
9.1.9 RELATIVE VAPOR DENSITY	Highest known value: 1.1 (Air = 1) (oxygen). Weighted average: 1 (Air = 1)
9.1.10 RELATIVE GAS DENSITY	0.0749 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	Not considered to be reactive.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
11 – TOXICOLOGICAL INFORMATION	

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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
12 – ECOLOGICAL INFORMATION	
12.1 TOXICITY	Not Available
12.2 PERSISTENCE AND DEGRADABILITY	Not Available
12.3 BIO ACCUMULATIVE POTENTIAL	Not Available
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

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	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	UN1002
14.1.2 UN PROPER SHIPPING NAME	Air, compressed
14.1.3 TRANSPORT HAZARD CLASS (ES) :	
14.1.3.1 HAZARD IDENTIFICATION NUMBER	20
14.1.4 ENVIRONMENTAL HAZARDS :	
14.1.4.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK	No
14.2 SEA (IMDG/IMSBC) :	
14.2.1 UN NUMBER	UN1002
14.2.2 UN PROPER SHIPPING NAME	Air, compressed (nitrogen, oxygen)
14.2.3 TRANSPORT HAZARD CLASS (ES) :	

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14.2.3.1 CLASS	2.2
14.3 AIR (ICAO-TI/IATA-DGR) :	
14.3.1 UN NUMBER	UN1002
14.3.2 UN PROPER SHIPPING NAME	Air, compressed (nitrogen, oxygen)
14.3.3 TRANSPORT HAZARD CLASS (ES) :	
14.3.3.1 CLASS	2.2
14.3.4 ENVIRONMENTAL HAZARDS :	
14.3.4.1 MARINE POLLUTANT	No
15 – REGULATORY INFORMATION	
15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	International lists : Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: Not determined. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. Taiwan inventory (CSNN): Not determined.
16 – OTHER INFORMATION :	
Not Relevant.	

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