


 www.sharjahoxygen.com	SAFETY DATA SHEET	SDS NO.	PG-004	
		DATE OF ISSUE	22/09/2009	
	NITROGEN, COMPRESSED	DATE UPDATED	LAST	05/08/2020
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1 – PRODUCT AND COMPANY IDENTIFICATION	
1.1 PRODUCT IDENTIFIER :	
1.1.1 PRODUCT NAME	Nitrogen, compressed
1.1.2 SYNONYMS	Nitrogen
1.1.3 CAS NUMBER	7727-37-9
1.1.4 CHEMICAL FORMULA	N ₂
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST :	
1.2.1 USES ADVISED AGAINST	Industrial or technical grade unsuitable for medical and/or food application.
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 ; May explode if heated	
2.2 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. In high concentration can cause asphyxiation.
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2.2.4 PRECAUTIONARY STATEMENT	Review Safety Data Sheet (SDS) prior to use.
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2.3 OTHER HAZARDS : Read label before use. Keep out of children’s reach. Close valve after every use and when empty. Equipment used should be rated for cylinder pressure. Open valve only when it is connected to equipment prepared for use. A back flow preventive device should be installed when used. Use only equipment of compatible materials of construction. If medical advice is needed, have product container or label at hand.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES :

3.1.1 CHEMICAL IDENTITY OF THE SUBSTANCE	Nitrogen
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3.1.2 COMMON NAME(S)/ SYNONYM(S)	Nitrogen gas
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3.1.3 CAS NO.	7727-37-9
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3.2 MIXTURES : 100 % Nitrogen* * The purity of the substance in this section is used for classification only, and does not represent the actual purity of the substance as supplied, for which other documentation should be verified and consulted.

4 – FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES :

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4.1.1 INHALATION	In high concentrations may cause asphyxiation and death. Symptoms may include loss of mobility/ consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
4.1.2 SKIN CONTACT	Flush contaminated skin with water. Contaminated clothes and shoes should be removed. If symptoms persist seek medical attention. Clothing should be washed prior to reuse. Shoes should be cleaned thoroughly prior to reuse.
4.1.3 EYE CONTACT	Immediately flush eyes with plenty of water while occasionally lifting the upper and lower eyelids. If using contact lenses, ensure to remove it. Rinse eyes for at least 10 minutes. Seek medical attention if irritation occurs.
4.1.4 INGESTION	Not considered as potential route of exposure
4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED :	
4.2.1 ACUTE SYMPTOMS AND EFFECTS	Respiratory arrest
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED :	
Notes to Physician: Symptoms may be delayed in the event of inhalation of decomposed products in fire. Person exposed to such needs to be under medical surveillance for the next 48 hours.	
5 – FIRE FIGHTING MEASURES	
5.1 EXTINGUISHING MEDIA :	
5.1.1 SUITABLE EXTINGUISHING MEDIA	Material does not burn. In the event of a fire in the surroundings, use appropriate extinguishing agent.

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5.1.2 UNSUITABLE EXTINGUISHING MEDIA	None
5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL :	
5.2.1 DURING FIRE	Compressed gas. If heated or in a fire, pressure increase will occur and might lead to bursting and explosion of the cylinder.
5.2.2 DURING EXPLOSION	N/A
5.2.3 DURING REACTIVITY	Decomposition products may include Nitrogen oxides.
5.3 ADVICE FOR FIRE FIGHTERS :	
5.3.1 FIRE FIGHTING INSTRUCTIONS	Promptly isolate the area from persons within the vicinity of the fire. Ensure that responders have appropriate training and that no personal risks involved during the response. If possible, move containers from the area and spray fire-exposed containers with water to cool them down.
5.3.2 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	Firefighters are required to wear standard protective equipment such as fire retardant coat, helmet with face shield, gloves and rubber boots. In confined spaces, use self-contained breathing apparatus.
6 – ACCIDENTAL RELEASE MEASURES	
6.1 ADVICE FOR FIRE FIGHTERS :	
6.1.1 GENERAL MEASURES	Evacuate area and provide proper ventilation. Prevent from entering sewers, basement land work pits or any space where accumulation is dangerous.
6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL	Avoid entering the area unprotected

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6.1.3 PROTECTIVE EQUIPMENT FOR RESPONDERS	Wear self-contained breathing apparatus.
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6.2 ENVIRONMENTAL PRECAUTIONS : Prevent further leakage or spillage if safe to do so.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP : Contact emergency personnel. If possible and safe to do, stop the leak. Ventilate the area.
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6.4 REFERENCE TO OTHER SECTION : Sections 8 & 13 for Waste Disposal

7 – HANDLING AND STORAGE

7.1 PRECAUTION FOR SAFE HANDLING : <p>Only experienced and properly trained persons should handle gases under pressure. 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. Refer to supplier's container handling instructions. Keep container below 50°C in a well-ventilated place. Open valve slowly to avoid pressure shock.</p>

7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :

7.2.1 SAFE REQUIREMENTS STORAGE	<p>Store in a cool, dry and well-ventilated area. Container valves must be closed tightly and kept sealed until ready for use.</p> <p>Cylinders should be stored upright with cap securely in place and properly secured to prevent from falling.</p>
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7.2.2 KEEP AWAY FROM	Incompatible materials and sunlight and heat exposure. Cylinder temperature must not exceed 50°C.
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8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS :

8.1.1 OCCUPATIONAL EXPOSURE : Exposure Limits – Oxygen Depletion (Asphyxiant)

8.2 EXPOSURE CONTROLS :

8.2.1 APPROPRIATE ENGINEERING CONTROLS	Ensure adequate ventilation. Oxygen detector should be used when asphyxiating gases may be released.
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8.2.2 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT :

8.2.2.1 RESPIRATORY PROTECTION	A suitable respirator should be used basing on risk assessments and known or anticipated exposure levels
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8.2.2.2 HAND PROTECTION	Gloves that are chemical-resistant and impervious should be used.
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8.2.2.3 EYE PROTECTION	Safety eyewear should be worn.
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8.3 ENVIRONMENTAL EXPOSURE CONTROLS	Emission from ventilation and work process equipment should be checked if compliant with related legal requirements.
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9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :

9.1.1 PHYSICAL STATE	Gas (compressed)
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9.1.2 APPEARANCE	Gas
9.1.3 MOLECULAR MASS	28.02 g/mole N ₂
9.1.4 COLOR	Colorless
9.1.5 ODOR	Odorless
9.1.6 ODOR THRESHOLD	Subjective and is inadequate to warn off over exposure.
9.1.7 PH	Not applicable
9.1.8 RELATIVE EVAPORATION RATE	Not available
9.1.9 MELTING POINT	-210.01oC (-346oF)
9.1.10 FREEZING POINT	-210.01oC (-346oF)
9.1.11 BOILING POINT	-196oC (-320.8oF)
9.1.12 FLASH POINT	Not applicable
9.1.13 CRITICAL TEMPERATURE	-146.95oC (-232.5oF)
9.1.14 AUTO-IGNITION TEMPERATURE	Not available
9.1.15 DECOMPOSITION TEMPERATURE	Not available
9.1.16 FLAMMABILITY (SOLID/GAS)	Not available
9.1.17 VAPOR PRESSURE	Not available
9.1.18 RELATIVE VAPOR DENSITY	0.967 (air=1)
9.1.19 RELATIVE DENSITY	0.8
9.1.20 SPECIFIC GRAVITY/DENSITY	Not available
9.1.21 RELATIVE GAS DENSITY	0.072 lb/ft ³
9.1.22 SOLUBILITY IN WATER	20 mg/l
9.1.23 KINEMATIC VISCOSITY	Not available
9.1.24 DYNAMIC VISCOSITY	0.171 mPa.s (10.9oC)

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9.1.25 EXPLOSIVE PROPERTIES	Not applicable
9.1.26 OXIDIZING PROPERTIES	Not applicable
10 – STABILITY AND REACTIVITY	
10.1 REACTIVITY	No specific test data available
10.2 CHEMICAL STABILITY	Stable under normal conditions
10.3 POSSIBILITY OF HAZARDOUS REACTION	Under normal conditions of storage and use, no hazards will occur.
10.4 CONDITIONS TO AVOID	No data available
10.5 INCOMPATIBLE MATERIALS	No data available
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Under normal conditions of storage and use, no hazardous decomposition products should be produced.
11 – TOXICOLOGICAL INFORMATION	
11.1 INFORMATION ON TOXICOLOGICAL EFFECTS :	
11.1.1 ACUTE TOXICITY	Based on available data, the classification criteria are not met
11.1.2 CORROSION/ IRRITATION	Based on available data, the classification criteria are not met
11.1.3 RESPIRATORY/SKIN SENSITIZATION	Based on available data, the classification criteria are not met
11.1.4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	Based on available data, the classification criteria are not met
11.1.5 MUTAGENICITY	Based on available data, the classification criteria are not met
11.1.6 CARCINOGENICITY	Based on available data, the classification criteria are not met
11.1.7 REPRODUCTIVE TOXICITY	Based on available data, the classification criteria are not met

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12 – ECOLOGICAL INFORMATION	
12.1 TOXICITY	Not available
12.2 PERSISTENCE AND DEGRADABILITY	Substance is naturally occurring
12.3 BIO ACCUMULATIVE POTENTIAL	Product is expected to biodegrade and is not expected to persist long periods in aquatic environment
12.4 MOBILITY IN SOIL	Not applicable
12.5 OTHER ADVERSE EFFECTS :	
12.5.1 GLOBAL WARMING POTENTIAL (GWP)	Not available
12.5.2 OZONE DEPLETING POTENTIAL (ODP)	Not available
13 – DISPOSAL CONSIDERATIONS	
13.1 WASTE TREATMENT METHODS :	
13.1.1 PROVISION RELATING TO WASTE	Contact supplier if guidance is required.
13.1.2 DISPOSAL METHODS	To atmosphere in a well-ventilated place. Do not discharge into any place where its accumulation could be dangerous.
13.1.3 PACKAGING/ CONTAINER	Empty containers or liners could retain some product residue thus should not be punctured or incinerated. These should be disposed in a safe way. Recycle container as much as possible. If not possible, that's the only time incineration and landfill disposal shall be considered.
14 – TRANSPORT INFORMATION	

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14.1 ROAD (ADR) :	
14.1.1 UN NUMBER	1066
14.1.2 UN PROPER SHIPPING NAME	Nitrogen, Compressed
14.1.3 TRANSPORT HAZARD CLASS (ES) :	
14.1.3.1 HAZARD IDENTIFICATION NUMBER	2.2
14.1.4 CLASS	
14.1.4.1 CLASSIFICATION CODE	2.2
14.1.5 PACKING GROUP :	
14.1.5.1 LABELS	2.2
14.1.6 ENVIRONMENTAL HAZARDS :	
14.1.6.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK	Not applicable
14.1.7 ENVIRONMENTAL HAZARDS :	
14.1.7.1 SPECIAL PROVISIONS	<p>Avoid transport on vehicles where the load space is not separated from the driver's 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.</p> <p>Before transporting product containers ensure that they are firmly secured and the cylinder valve is closed and not leaking, valve outlet cap nut or plug and, valve protection device (where provided) is correctly fitted. Ensure there is adequate ventilation. Comply with applicable regulations.</p>

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14.2 INLAND WATERWAYS (ADN):	
14.2.1 UN NUMBER	Not available
14.2.2 UN PROPER SHIPPING NAME	Not available
14.2.3 TRANSPORT HAZARD CLASS (ES) :	
14.2.3.1 HAZARD IDENTIFICATION NUMBER	Not available
14.2.3.2 CLASS	Not available
14.2.3.3 CLASSIFICATION CODE	Not available
14.2.4 PACKING GROUP :	
14.2.4.1 PACKING GROUP	Not available
14.2.4.2 LABELS	Not available
14.2.5 ENVIRONMENTAL HAZARDS :	
14.2.5.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK	Not available
14.2.6 SPECIAL PRECAUTIONS FOR USER :	
14.2.6.1 SPECIAL PROVISIONS	Not available
14.2.6.2 LIMITED QUANTITIES	Not available
14.3 SEA (IMDG/IMSBC) :	
14.3.1 UN NUMBER	1066
14.3.2 UN PROPER SHIPPING NAME	Nitrogen Compressed

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14.3.3 TRANSPORT HAZARD CLASS (ES) :	
14.3.3.1 HAZARD IDENTIFICATION NUMBER	2.2
14.3.3.2 CLASS	2.2
14.3.3.3 CLASSIFICATION CODE	Not available
14.3.4 PACKING GROUP :	
14.3.4.1 PACKING GROUP	Not available
14.3.4.2 LABELS	Not available
14.3.5 ENVIRONMENTAL HAZARDS :	
14.3.5.1 MARINE POLLUTANT	Not available
14.3.5.2 ENVIRONMENTALLY HAZARDOUS SUBSTANCE MARK	Not available
14.3.6 SPECIAL PRECAUTIONS FOR USER:	
14.3.6.1 SPECIAL PROVISIONS	Not available
14.3.6.2 LIMITED QUANTITIES	Not available
14.3.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE :	
14.3.7.1 ANNEX II OF MARPOL 73/78	Not available
14.4 AIR (ICAO-TI/IATA-DGR) :	

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14.4.1 UN NUMBER	1066
14.4.2 UN PROPER SHIPPING NAME	Nitrogen Compressed
14.4.3 TRANSPORT HAZARD CLASS (ES) :	
14.4.3.1 CLASS	2.2
14.4.4 PACKING GROUP :	
14.4.4.1 PACKING GROUP	Not available
14.4.4.2 LABELS	2.2
14.4.5 PACKING GROUP :	
14.4.5.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK	Not available
14.4.6 SPECIAL PRECAUTIONS FOR USER :	
14.4.6.1 SPECIAL PROVISIONS	Not available
14.4.6.2 PASSENGER AND CARGO TRANSPORT, LIMITED QUANTITIES, MAXIMUM NET QUANTITY PER PACKAGING	Passenger and Cargo Aircraft : 75kg quantity limitation Cargo only: 150kg Quantity Limitation
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.

Read this Safety Data Sheet (SDS) before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of information before use or other exposure. The SDS information is based on sources believed to be reliable. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **SHARJAH OXYGEN COMPANY** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.

 www.sharjahoxygen.com	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG-004
		DATE OF ISSUE	22/09/2009
	<h1>NITROGEN, COMPRESSED</h1>	DATE UPDATED	LAST 05/08/2020
		REV. NO.	02
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	<p>SARA 302/304 Composition/information on ingredients:</p> <p>No products were found.</p> <p>SARA 304 RQ: Not applicable.</p> <p>SARA 311/312</p> <p>Classification : Sudden release of pressure</p>
15.2 CHEMICAL SAFETY ASSESSMENT	No chemical safety has been carried out.
16 – OTHER INFORMATION	
<p>Ensure all relevant national/local regulations are observed. Asphyxiant in high concentrations. Keep container in well ventilated place. Do not breathe the gas. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Users of breathing apparatus must be trained. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Do not use any other gas as a substitute for nitrogen. Always leak check cylinders when first collected, delivered or used, using an approved leak detection fluid.</p>	

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