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|  <p>SHARJAH OXYGEN COMPANY</p> <p>SOC</p> <p>www.sharjahoxygen.com</p> | <h1>SAFETY DATA SHEET</h1> | SDS NO. | PG-003 |
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| 1 – PRODUCT AND COMPANY IDENTIFICATION | |
| 1.1 PRODUCT IDENTIFIER : | |
| 1.1.1 PRODUCT NAME | Oxygen |
| 1.1.2 SYNONYMS | Molecular oxygen; Oxygen molecule; Pure oxygen; O ₂ ; UN 1072; Dioxygen; Oxygen USP, Aviator's Breathing Oxygen (ABO) |
| 1.1.3 CAS NUMBER | 7782-44-7 |
| 1.1.4 CHEMICAL FORMULA | O ₂ |
| 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST : | |
| 1.2.1 RELEVANT IDENTIFIED USES | Synthetic/Analytical chemistry |
| 1.2.2 USES ADVISED AGAINST | N/A |
| 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 : | |
| OXIDIZING GASES - Category 1 GASES UNDER PRESSURE - Compressed gas | |
| 2.2 LABEL ELEMENTS : | |

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| 2.2.1 LABELING PICTOGRAMS |  |
| 2.2.2 SIGNAL WORD | Danger |
| 2.2.3 HAZARD STATEMENT | May cause or intensify fire; oxidizer. Contains gas under pressure; may explode if heated |
| 2.2.4 PRECAUTIONARY STATEMENT | 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. Open valve slowly. Use only with equipment cleaned for Oxygen service. |
| 2.3 OTHER HAZARDS : | None known |
| 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)/ | Oxygen, Molecular oxygen; Oxygen molecule; Pure oxygen; O ₂ ; UN 1072; Dioxygen; Oxygen USP, Aviator's Breathing Oxygen (ABO) |
| 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 : 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>Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and 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 | 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 | Eye contact : Contact with rapidly expanding gas may cause burns or frostbite Inhalation : No known significant effects or critical hazards Skin contact : Contact with rapidly expanding gas may cause burns or frostbite Frostbite : Try to warm up the frozen tissues and seek medical attention Ingestion : As this product is a gas, refer to the inhalation section |
| 4.2.2 DELAYED SYMPTOMS AND EFFECTS | No specific data |
| 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. |
| 5.1.2 UNSUITABLE EXTINGUISHING MEDIA | None known |
| 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, with the risk of a subsequent explosion |

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| 5.2.2 | DURING EXPLOSION | N/A |
| 5.2.3 | DURING REACTIVITY | N/A |
| 5.3 ADVICE FOR FIRE FIGHTERS : | | |
| 5.3.1 | FIRE INSTRUCTIONS FIGHTING | 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 | N/A |
| 5.3.3 | SPECIAL EQUIPMENT FOR FIGHTERS PROTECTIVE FOR FIRE | 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. |
| 6.1.2 | PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL | 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. |

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| 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. |
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| 6.2 ENVIRONMENTAL PRECAUTIONS : 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). |
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| 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. |
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| 6.4 REFERENCE TO OTHER SECTION : See Section 13 for waste disposal. |
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7 – HANDLING AND STORAGE

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| 7.1 PRECAUTION 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. |
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7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :

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| 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). |
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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 |
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| 7.2.3 | SUITABLE MATERIAL | PACKAGING | N/A |
| 7.2.4 | NON-SUITABLE MATERIAL | PACKAGING | N/A |
| 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION | | | |
| 8.1 CONTROL PARAMETERS : | | | |
| 8.1.1 OCCUPATIONAL EXPOSURE : None. | | | |
| 8.2 EXPOSURE CONTROLS : | | | |
| 8.2.1 | APPROPRIATE CONTROLS | ENGINEERING | 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. |
| 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 | Gas. [Compressed gas.] |
| 9.1.2 APPEARANCE | N/A |
| 9.1.3 MOLECULAR MASS | 32 g/mole |
| 9.1.4 COLOR | Colorless. Blue |
| 9.1.5 ODOR | Odorless |
| 9.1.6 ODOR THRESHOLD | Not available |
| 9.1.7 PH | Not available |
| 9.1.8 RELATIVE EVAPORATION RATE | N/A |
| 9.1.9 MELTING POINT | -218.4°C (-361.1°F) |
| 9.1.10 FREEZING POINT | -218.4°C (-361.1°F) |
| 9.1.11 BOILING POINT | -183°C (-297.4°F) |
| 9.1.12 FLASH POINT | [Product does not sustain combustion.] |
| 9.1.13 CRITICAL TEMPERATURE | -118.15°C (-180.7°F) |

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| 9.1.14 AUTO-IGNITION TEMPERATURE | Not available |
| 9.1.15 DECOMPOSITION TEMPERATURE | Not available |
| 9.1.16 FLAMMABILITY (SOLID/GAS) | Extremely flammable in the presence of the following materials or conditions: reducing materials, combustible materials and organic materials |
| 9.1.17 VAPOR PRESSURE | Not available |
| 9.1.18 CRITICAL PRESSURE | N/A |
| 9.1.19 RELATIVE VAPOR DENSITY | N/A |
| 9.1.20 RELATIVE DENSITY | Not applicable. |
| 9.1.21 SPECIFIC GRAVITY/DENSITY | N/A |
| 9.1.22 RELATIVE GAS DENSITY | N/A |
| 9.1.23 SOLUBILITY | Not available |
| 9.1.24 VISCOSITY, KINEMATIC | N/A |
| 9.1.25 VISCOSITY, DYNAMIC | N/A |
| 9.1.26 EXPLOSIVE PROPERTIES | N/A |
| 9.1.27 OXIDIZING PROPERTIES | N/A |
| 9.1.28 EXPLOSIVE LIMITS | N/A |
| 9.2 OTHER INFORMATION : | |
| 9.2.1 GAS GROUP | N/A |
| 9.2.2 ADDITIONAL INFORMATION | Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. |

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| 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 | Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing fire |
| 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. |
| 11 – 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. |

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| 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 – 0.65 Potential - low |
| 12.4 MOBILITY IN SOIL | Not available. |
| 12.5 OTHER ADVERSE EFFECTS : No known significant effects or critical hazards | |
| 12.5.1 GLOBAL WARMING POTENTIAL (GWP) | N/A |
| 12.5.2 OZONE DEPLETING POTENTIAL (ODP) | N/A |
| 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. |

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| 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 | 1072 |
| 14.1.2 UN PROPER SHIPPING NAME | OXYGEN, COMPRESSED |
| 14.1.3 TRANSPORT HAZARD CLASS (ES) : | |
| 14.1.3.1 HAZARD IDENTIFICATION NUMBER | 25 |
| 14.1.4 CLASS | |
| 14.1.4.1 CLASSIFICATION CODE | 1 0 |
| 14.1.5 PACKING GROUP : | |
| 14.1.5.1 PACKING GROUP | N/A |
| 14.1.5.2 LABELS | N/A |
| 14.1.6 ENVIRONMENTAL HAZARDS : | |
| 14.1.6.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK | N/A |
| 14.1.7 SPECIAL PRECAUTIONS FOR USER : | |
| 14.1.7.1 SPECIAL PROVISIONS | Passenger aircraft Quantity limitation: 75 kgs. Cargo aircraft Quantity limitation: 150 kg |

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| 14.1.7.2 LIMITED QUANTITIES | Yes |
| 14.2 INLAND WATERWAYS (ADN) : | |
| 14.2.1 UN NUMBER | N/A |
| 14.2.2 UN PROPER SHIPPING NAME | N/A |
| 14.2.3 TRANSPORT HAZARD CLASS (ES) : | |
| 14.2.3.1 HAZARD IDENTIFICATION NUMBER | N/A |
| 14.2.3.2 CLASS | N/A |
| 14.2.3.3 CLASSIFICATION CODE | N/A |
| 14.2.4 PACKING GROUP : | |
| 14.2.4.1 PACKING GROUP | N/A |
| 14.2.4.2 LABELS | N/A |
| 14.2.5 ENVIRONMENTAL HAZARDS : | |
| 14.2.5.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK | N/A |
| 14.2.6 SPECIAL PRECAUTIONS FOR USER : | |
| 14.2.6.1 SPECIAL PROVISIONS | N/A |
| 14.2.6.2 LIMITED QUANTITIES | N/A |
| 14.3 SEA (IMDG/IMSBC) : | |
| 14.3.1 UN NUMBER | 1072 |

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| 14.3.2 | UN PROPER SHIPPING NAME | OXYGEN, COMPRESSED |
| 14.3.3 | TRANSPORT HAZARD CLASS (ES) : | |
| | 14.3.3.1 HAZARD IDENTIFICATION NUMBER | 25 |
| | 14.3.3.2 CLASS | 2.2 (5.1) |
| | 14.3.3.3 CLASSIFICATION CODE | N/A |
| 14.3.4 | PACKING GROUP : | |
| | 14.3.4.1 PACKING GROUP | N/A |
| | 14.3.4.2 LABELS | N/A |
| 14.3.5 | ENVIRONMENTAL HAZARDS : | |
| | 14.3.5.1 MARINE POLLUTANT | N/A |
| | 14.3.5.2 ENVIRONMENTALLY HAZARDOUS SUBSTANCE MARK | N/A |
| 14.3.6 | SPECIAL PRECAUTIONS FOR USER : | |
| | 14.3.6.1 SPECIAL PROVISIONS | N/A |
| | 14.3.6.2 LIMITED QUANTITIES | N/A |
| 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 | N/A |
| 14.4 | AIR (ICAO-TI/IATA-DGR) : | |
| 14.4.1 | UN NUMBER | 1072 |

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| 14.4.2 | UN PROPER SHIPPING NAME | OXYGEN, COMPRESSED |
| 14.4.3 | TRANSPORT HAZARD CLASS (ES) : | |
| | 14.4.3.1 CLASS | 2.2 (5.1) |
| 14.4.4 | PACKING GROUP : | |
| | 14.4.4.1 PACKING GROUP | N/A |
| | 14.4.4.2 LABELS | N/A |
| 14.4.5 | ENVIRONMENTAL HAZARDS : | |
| | 14.4.5.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK | N/A |
| 14.4.6 | SPECIAL PRECAUTIONS FOR USER : | |
| | 14.4.6.1 SPECIAL PROVISIONS | N/A |
| | 14.4.6.2 PASSENGER AND CARGO TRANSPORT, LIMITED QUANTITIES, MAXIMUM NET QUANTITY PER PACKAGING | <u>Passenger and Cargo Aircraft</u> Quantity limitation: 75 kg <u>Cargo Aircraft Only</u> Quantity limitation: 150 kg |
| 15 – REGULATORY INFORMATION | | |
| 15.1 | SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE | EU legislation Sevesco directive 96/82/EC: Not covered National legislation: Ensure all national /local regulation are observed |
| 15.2 | CHEMICAL SAFETY ASSESSMENT | A CSA does not need to be carried out for this product |

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16 – OTHER INFORMATION :

Ensure operators understand the hazard of oxygen enrichment.

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