


	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG . 016
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<h2>NITROUS OXIDE</h2>			


<b>1 – PRODUCT AND COMPANY IDENTIFICATION</b>		
<b>1.1 PRODUCT IDENTIFIER :</b>		
<b>1.1.1 PRODUCT NAME</b>	Nitrous Oxide	
<b>1.1.2 SYNONYMS</b>	Nitrogen oxide; Nitrous oxide; Nitrogen oxide (N <sub>2</sub> O); Laughing gas; Hyponitrous acid anhydride; Dinitrogen monoxide, Nitrous Oxide USP	
<b>1.1.3 CAS NUMBER</b>	10024-97-2	
<b>1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST :</b>		
<b>1.2.1 RELEVANT IDENTIFIED USES</b>	Synthetic/Analytical chemistry.	
<b>1.3 DETAILS OF THE SUPPLIER :</b>		
<b>1.3.1 COMPANY IDENTIFICATION</b>	Islam Oxygen Limited	
<b>1.4 EMERGENCY TELEPHONE NUMBER :</b>		
<b>1.4.1 EMERGENCY NUMBER(S)</b>	<b>PHONE</b>	+8801755 66 03 29
<b>2 – HAZARD(S) IDENTIFICATION</b>		
<b>2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE :</b>		
OXIDIZING GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3		
<b>2.1 LABEL ELEMENTS :</b>		
<b>2.2.1 LABELING PICTOGRAMS</b>		
<b>2.2.2 SIGNAL WORD</b>	Danger	

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<b>2.2.3 HAZARD STATEMENT</b>	<p>May cause or intensify fire; oxidizer. Contains gas under pressure; may explode if heated. May cause frostbite. May displace oxygen and cause rapid suffocation. May cause drowsiness and dizziness.</p>
<b>2.2.4 PRECAUTIONARY STATEMENT</b>	<p>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 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.</p>
<b>2.3 OTHER HAZARDS:</b>	<p>In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.</p>
<b>3 – COMPOSITION/INFORMATION ON INGREDIENTS</b>	
<b>3.1 SUBSTANCES :</b>	
<b>3.1.1 CHEMICAL IDENTITY OF THE SUBSTANCE</b>	Substance
<b>3.1.2 COMMON NAME(S)/ SYNONYM(S)</b>	Nitrous Oxide
<b>3.1.3 CAS NO.</b>	10024-97-2
<b>3.1.4 IMPURITIES AND STABILIZING ADDITIVES WHICH ARE THEMSELVES CLASSIFIED AND WHICH CONTRIBUTE TO THE CLASSIFICATION OF THE SUBSTANCE</b>	<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>
<b>3.2 MIXTURES :</b> Nitrous Oxide – 100%	

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<b>4 – FIRST AID MEASURES</b>	
<b>4.1 DESCRIPTION OF FIRST AID MEASURES :</b>	
<b>4.1.1 INHALATION</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. 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.
<b>4.1.2 SKIN CONTACT</b>	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.
<b>4.1.3 EYE CONTACT</b>	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.
<b>4.1.4 INGESTION</b>	As this product is a gas, refer to the inhalation section.
<b>4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED :</b>	
<b>4.2.1 ACUTE SYMPTOMS AND EFFECTS</b>	Can cause central nervous system (CNS) depression. As this product is a gas, refer to the inhalation section.

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<b>4.2.2 DELAYED SYMPTOMS AND EFFECTS</b>	Adverse symptoms may include the following: , nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.
<b>4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED :</b>	
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.	
<b>5 – FIRE FIGHTING MEASURES</b>	
<b>5.1 EXTINGUISHING MEDIA :</b>	
<b>5.1.1 SUITABLE EXTINGUISHING MEDIA</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>5.1.2 UNSUITABLE EXTINGUISHING MEDIA</b>	None known.
<b>5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL :</b>	
<b>5.2.1 DURING FIRE</b>	Contains gas under pressure. Oxidizing material. This material increases the risk of fire and may aid combustion.
<b>5.2.2 DURING EXPLOSION</b>	Contact with combustible material may cause fire. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
<b>5.2.3 DURING REACTIVITY</b>	Decomposition products may include the following materials: nitrogen oxides.
<b>5.3 ADVICE FOR FIRE FIGHTERS :</b>	
<b>5.3.1 FIRE FIGHTING INSTRUCTIONS</b>	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.
<b>5.3.2 PROTECTION DURING FIRE FIGHTING</b>	Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk.

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<b>5.3.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>6 – ACCIDENTAL RELEASE MEASURES</b>	
<b>6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES :</b>	
<b>6.1.1 GENERAL MEASURES</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area.
<b>6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL</b>	Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>6.1.3 PROTECTIVE EQUIPMENT FOR EMERGENCY RESPONDERS</b>	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
<b>6.2 ENVIRONMENT PRECAUTIONS:</b>  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).	
<b>6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP :</b>  Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	
<b>7 – HANDLING AND STORAGE</b>	

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<p><b>7.1 PRECAUTIONS FOR SAFE HANDLING :</b></p> <p>Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.</p>	
<p><b>7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :</b></p>	
<p><b>7.2.1 SAFE STORAGE REQUIREMENTS</b></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>
<p><b>7.2.2 KEEP AWAY FROM</b></p>	<p>Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Separate from acids, alkalies, reducing agents and combustibles.</p>
<p><b>8 – EXPOSURE CONTROLS/PERSONAL PROTECTION</b></p>	
<p><b>8.1 CONTROL PARAMETERS :</b></p>	
<p><b>8.1.1 OCCUPATIONAL EXPOSURE :</b></p>	
<p>ACGIH TLV (United States, 3/2015). TWA: 90 mg/m<sup>3</sup> 8 hours.</p>	
<p>TWA: 50 ppm 8 hours.</p>	
<p>NIOSH REL (United States, 10/2013). TWA: 46 mg/m<sup>3</sup> 10 hours. TWA: 25 ppm 10 hours.</p>	
<p><b>8.2 EXPOSURE CONTROLS :</b></p>	

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<b>8.2.1 APPROPRIATE ENGINEERING CONTROLS</b>	<p>Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.</p>
<b>8.2.2 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT :</b>	
<b>8.2.2.1 RESPIRATORY PROTECTION</b>	<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>
<b>8.2.2.2 HAND PROTECTION</b>	<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. 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.</p>
<b>8.2.2.3 EYE PROTECTION</b>	<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>

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<b>8.2.2.4 SKIN PROTECTION</b>	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.
<b>8.3 ENVIRONMENTAL EXPOSURE CONTROLS</b>	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.
<b>9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :</b>	
<b>9.1.1 PHYSICAL STATE</b>	Gas. [Compressed gas.]
<b>9.1.2 APPEARANCE</b>	Colorless.
<b>9.1.3 MOLECULAR MASS</b>	44.01 g/mole
<b>9.1.4 COLOR</b>	Colorless.
<b>9.1.5 ODOR</b>	Characteristic.
<b>9.1.6 MELTING POINT</b>	-90.8°C (-131.4°F)
<b>9.1.7 FREEZING POINT</b>	-90.8°C (-131.4°F)
<b>9.1.8 BOILING POINT</b>	-88.5°C (-127.3°F)
<b>9.1.9 CRITICAL TEMPERATURE</b>	36.55°C (97.8°F)
<b>9.1.10 RELATIVE GAS DENSITY</b>	Extremely flammable in the presence of the following materials or conditions: reducing materials and combustible materials.
<b>9.1.11 VAPOR PRESSURE</b>	745 (psig)
<b>9.1.12 RELATIVE VAPOR DENSITY</b>	1.53 (Air = 1) Liquid Density@BP: 76.8 lb/ft <sup>3</sup> (1230 kg/m <sup>3</sup> )
<b>9.1.13 RELATIVE GAS DENSITY</b>	0.115 lb/ft <sup>3</sup>


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<b>9.1.14 SOLUBILITY</b>	1.2 g/l (in water)
<b>10 – STABILITY AND REACTIVITY</b>	
<b>10.1 REACTIVITY</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 CHEMICAL STABILITY</b>	The product is stable.
<b>10.3 POSSIBILITY OF HAZARDOUS REACTION</b>	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
<b>10.4 CONDITIONS TO AVOID</b>	No specific data.
<b>10.5 INCOMPATIBLE MATERIALS</b>	Highly reactive or incompatible with the following materials: combustible materials reducing materials grease oil
<b>10.6 HAZARDOUS DECOMPOSITION PRODUCTS</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>11 – TOXICOLOGICAL INFORMATION</b>	
<b>11.1 INFORMATION ON TOXICOLOGICAL EFFECTS :</b>	
<b>11.1.1 ACUTE TOXICITY</b>	Not Available
<b>11.1.2 CORROSION/ IRRITATION</b>	Not Available
<b>11.1.3 RESPIRATORY/SKIN SENSITIZATION</b>	Not Available
<b>11.1.4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)</b>	Category 3, Narcotic effects
<b>11.1.5 CARCINOGENICITY</b>	IARC: 3
<b>12 – ECOLOGICAL INFORMATION</b>	
<b>12.1 TOXICITY</b>	Not Available

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<b>12.2 PERSISTENCE AND DEGRADABILITY</b>	Not Available
<b>12.3 BIO ACCUMULATIVE POTENTIAL</b>	LogP <sub>ow</sub> : 0.36 BCF: - Potential: low
<b>13 – DISPOSAL CONSIDERATIONS</b>	
<b>13.1 WASTE TREATMENT METHODS :</b>	
<b>13.1.1 PROVISION RELATING TO WASTE</b>	
<b>13.1.2 DISPOSAL METHODS</b>	
<b>13.1.3 PACKAGING/ CONTAINER</b>	
<b>14 – TRANSPORT INFORMATION</b>	
<b>14.1 ROAD (ADR) :</b>	
<b>14.1.1 UN NUMBER</b>	UN1070
<b>14.1.2 UN PROPER SHIPPING NAME</b>	NITROUS OXIDE
<b>14.1.3 TRANSPORT HAZARD CLASS (ES) :</b>	2.2 (5.1)
<b>14.1.3.1 HAZARD IDENTIFICATION NUMBER</b>	25
<b>14.1.4 ENVIRONMENTAL HAZARDS :</b>	
<b>14.1.4.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK</b>	No
<b>14.1.5 SPECIAL PRECAUTIONS FOR USER:</b>	
<b>14.1.5.1 LIMITED QUANTITIES</b>	Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: 75 kg  Cargo aircraft Quantity limitation: 150 kg

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<b>14.2 SEA (IMDG/IMSBC) :</b>	
<b>14.2.1 UN NUMBER</b>	UN1070
<b>14.2.2 UN PROPER SHIPPING NAME</b>	NITROUS OXIDE
<b>14.2.3 TRANSPORT HAZARD CLASS (ES) :</b>	
<b>14.2.3.1 CLASS</b>	25
<b>14.3 AIR (ICAO-TI/IATA-DGR) :</b>	
<b>14.3.1 UN NUMBER</b>	UN1070
<b>14.3.2 UN PROPER SHIPPING NAME</b>	NITROUS OXIDE
<b>14.3.3 TRANSPORT HAZARD CLASS (ES) :</b>	2.2 (5.1)
<b>14.3.3.1 CLASS</b>	
<b>14.3.4 SPECIAL PRECAUTIONS FOR USER :</b>	
<b>14.3.4.1 PASSENGER AND CARGO TRANSPORT, LIMITED</b>	Passenger and Cargo Aircraft Quantity limitation: 75 kg
<b>QUANTITIES, MAXIMUM NET QUANTITY PER PACKAGING</b>	Cargo Aircraft Only Quantity limitation: 150 kg
<b>15 – REGULATORY INFORMATION</b>	
<b>15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE</b>	U.S. Federal regulations:  TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): This material is listed or exempted.
<b>16 – OTHER INFORMATION:</b>	
<b>Canada Label requirements:</b>	Class A: Compressed gas. Class C: Oxidizing material. Class D-2A: Material causing other toxic effects (Very toxic).

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, **ISLAM OXYGEN LIMITED** 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.