

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


1 – PRODUCT AND COMPANY IDENTIFICATION	
1.1 PRODUCT IDENTIFIER :	
1.1.1 PRODUCT NAME	Hydrogen
1.1.2 SYNONYMS	Dihydrogen; o-Hydrogen; p-Hydrogen; Molecular hydrogen; H ₂ ; UN 1049
1.1.3 CAS NUMBER	01333-74-0
1.1.4 CHEMICAL FORMULA	H 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 :	
FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas	
2.2 LABEL ELEMENTS :	
2.2.1 LABELING PICTOGRAMS	

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2.2.2	SIGNAL WORD	Danger
2.2.3	HAZARD STATEMENT	Extremely flammable gas. Contains gas under pressure and may explode if heated. Burns with invisible flame. May form explosive mixtures in Air. May displace oxygen and cause rapid suffocation
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. Approach suspected leak area with caution.
3 – COMPOSITION/INFORMATION ON INGREDIENTS		
3.1 SUBSTANCES :		
3.1.1	CHEMICAL IDENTITY OF THE SUBSTANCE	Hydrogen
3.1.2	COMMON NAME(S)/ SYNONYM(S)	Dihydrogen; o-Hydrogen; p-Hydrogen; Molecular hydrogen; H ₂ ; UN 1049
3.1.3	CAS NO.	01333-74-0
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.

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<p>3.2 MIXTURES :</p> <p>Hydrogen – 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>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. 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 if irritation occurs.</p>
<p>4.1.4 INGESTION</p>	<p>As this product is a gas, refer to the inhalation section.</p>

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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	Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
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. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.
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 :	

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6.1.1 GENERAL MEASURES	<p>Accidental releases pose a serious fire or explosion hazard. 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. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL	<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 ENVIRONMENTAL 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. Use spark-proof tools and explosion-proof equipment.</p>	
7 – HANDLING AND STORAGE	
7.1 PRECAUTION FOR SAFE HANDLING :	
<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. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure.</p> <p>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>	

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7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :	
7.2.1 SAFE STORAGE REQUIREMENTS	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). Eliminate all ignition sources.
8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 CONTROL PARAMETERS :	
8.1.1 OCCUPATIONAL EXPOSURE :	
Oxygen Depletion [Asphyxiant]	
8.2 EXPOSURE CONTROLS :	
8.2.1 APPROPRIATE ENGINEERING CONTROLS	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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
8.2.2 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT :	

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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.
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.
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 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

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9.1.2 APPEARANCE	Colourless Gas
9.1.3 MOLECULAR MASS	2 g/mole
9.1.4 COLOR	Colourless
9.1.5 ODOR	No odour warning properties
9.1.6 MELTING POINT	-259.15°C (-434.5°F)
9.1.7 FREEZING POINT	-259.15°C (-434.5°F)
9.1.8 BOILING POINT	-253°C (-423.4°F)
9.1.9 CRITICAL TEMPERATURE	-240.15°C (-400.3°F)
9.1.10 AUTO-IGNITION TEMPERATURE	500 to 571°C (932 to 1059.8°F)
9.1.11 FLAMMABILITY (SOLID/GAS)	Extremely flammable in the presence of the following materials or conditions: oxidizing materials.
9.1.12 GAS DENSITY	0.00521 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	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 INCOMPATIBLE MATERIALS	Oxidizers
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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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
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
12.5 OTHER ADVERSE EFFECTS :	
12.5.1 GLOBAL WARMING POTENTIAL (GWP)	Not Available
12.5.2 OZONE DEPLETING POTENTIAL (ODP)	Not Available

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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.
13.1.2 DISPOSAL METHODS	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. 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. Packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
13.1.3 PACKAGING/ CONTAINER	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	1049
14.1.2 UN PROPER SHIPPING NAME	Hydrogen, compressed Gas
14.1.3 CLASS	
14.1.3.1 CLASSIFICATION CODE	2.1
14.1.4 ENVIRONMENTAL HAZARDS :	

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14.1.4.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK	No.
14.1.5 SPECIAL PRECAUTIONS FOR USER :	
14.1.5.1 LIMITED QUANTITIES	<u>Limited quantity</u> Yes. <u>Packaging instruction Passenger aircraft</u> Quantity limitation: Forbidden. <u>Cargo aircraft</u> Quantity limitation: 150 kg
14.4 AIR (ICAO-TI/IATA-DGR) :	
14.4.1 UN NUMBER	1049
14.4.2 UN PROPER SHIPPING NAME	Hydrogen, compressed Gas
14.4.3 TRANSPORT HAZARD CLASS (ES) :	
14.4.3.1 CLASS	2.1
14.4.4 ENVIRONMENTAL HAZARDS :	
14.4.5.1 ENVIRONMENTAL HAZARDOUS SUBSTANCE MARK	No
14.4.5 SPECIAL PRECAUTIONS FOR USER :	
14.4.5.1 SPECIAL PROVISIONS	
14.4.5.2 PASSENGER AND CARGO TRANSPORT, LIMITED QUANTITIES, MAXIMUM NET QUANTITY PER PACKAGING	<u>Passenger and Cargo Aircraft</u> Quantity limitation: 0 Forbidden <u>Cargo Aircraft Only</u> Quantity limitation: 150 kg

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15 – REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

EC Classification:
F+; R12 - Symbols
F+: Extremely flammable
Labeling of cylinders:
Label 2.1: Flammable gas

16 – OTHER INFORMATION :

Ensure all national/local regulations are observed. Ensure operators understand the flammability hazard. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Users of breathing apparatus must be trained.

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