


	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG 016
		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	1 of 12	
<h2>Dissolved Acetylene</h2>			

1 – PRODUCT AND COMPANY IDENTIFICATION	
1.1 PRODUCT IDENTIFIER :	
1.1.1 PRODUCT NAME	Acetylene, Dissolved
1.1.2 SYNONYMS	Acetylene
1.1.3 CAS NUMBER	74-86-2
1.1.4 CHEMICAL FORMULA	C ₂ 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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	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG 016
		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	2 of 12	
<h2>Dissolved Acetylene</h2>			

2.2.2 SIGNAL WORD	Danger
2.2.3 HAZARD STATEMENT	Extremely flammable gas. May form explosive mixtures with air. Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
2.2.4 PRECAUTIONARY STATEMENT	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
2.3 OTHER HAZARDS : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.	
3 – COMPOSITION/INFORMATION ON INGREDIENTS	
3.1 SUBSTANCES :	Substance
3.1.1 CHEMICAL IDENTITY OF THE SUBSTANCE	Acetylene
3.1.2 COMMON NAME(S)/ SYNONYM(S)	Acetylene
3.1.3 CAS NO.	74-86-2
3.2 MIXTURES : Acetylene: 100%	
4 – FIRST AID MEASURES	
4.1 DESCRIPTION OF FIRST AID MEASURES :	
4.1.1 INHALATION	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

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		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	3 of 12	
<h2>Dissolved Acetylene</h2>			

	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.
4.1.2 SKIN CONTACT	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.
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 :	
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.

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		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	4 of 12	
<h2>Dissolved Acetylene</h2>			

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.
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. 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 :	
6.1.1 GENERAL MEASURES	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.
6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL	Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

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		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	5 of 12	
<h2>Dissolved Acetylene</h2>			

	appropriate personal protective equipment.
6.1.3 PROTECTIVE EQUIPMENT FOR EMERGENCY RESPONDERS	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
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).	
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.	
7 – HANDLING AND STORAGE	
7.1 PRECAUTION FOR SAFE HANDLING : Put on appropriate personal protective equipment. 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.	
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. Store in a dry, cool and well-ventilated 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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SAFETY DATA SHEET

Dissolved Acetylene

SDS NO.	PG 016
DATE OF ISSUE	31/10/2016
DATE LAST UPDATED	09/11/2019
REV. NO.	01
PAGE NO.	6 of 12

7.2.2 KEEP AWAY FROM	Store away from direct sunlight away from incompatible materials (see Section 10)
8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 CONTROL PARAMETERS :	
8.1.1 OCCUPATIONAL EXPOSURE :	
NIOSH REL (United States, 10/2013).	
CEIL: 2662 mg/m ³	
CEIL: 2500 ppm	
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 :	
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.

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		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	7 of 12	
<h2>Dissolved Acetylene</h2>			

8.2.2.2 HAND PROTECTION	<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>
8.2.2.3 EYE PROTECTION	<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>
8.2.2.4 SKIN PROTECTION	<p>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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.</p>
9 – PHYSICAL AND CHEMICAL PROPERTIES	
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :	
9.1.1 PHYSICAL STATE	Gas
9.1.2 APPEARANCE	Colourless gas

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		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	8 of 12	
<h2>Dissolved Acetylene</h2>			

9.1.3 MOLECULAR MASS	26.04 g/mole
9.1.4 COLOR	Colourless gas
9.1.5 ODOR	Mild. Ethereal.
9.1.6 MELTING POINT	-81°C (-113.8°F)
9.1.7 FREEZING POINT	-81°C (-113.8°F)
9.1.8 FLASH POINT	Closed cup: -18.15°C (-0.67°F)
9.1.9 CRITICAL TEMPERATURE	35.25°C (95.5°F)
9.1.10 AUTO-IGNITION TEMPERATURE	305°C (581°F)
9.1.11 FLAMMABILITY (SOLID/GAS)	Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials.
9.1.12 VAPOR PRESSURE	635 (psig)
9.2 OTHER INFORMATION :	
9.2.1 GAS GROUP	
9.2.2 ADDITIONAL INFORMATION	Poor warning properties at low concentrations.
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.

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	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG. 016
		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	9 of 12	
<h2>Dissolved Acetylene</h2>			

10.5 INCOMPATIBLE MATERIALS	Oxidizers
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.
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 : 0.37 Potential : Low
12.4 MOBILITY IN SOIL	Not available.

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	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG . 016
		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	10 of 12	
<h2>Dissolved Acetylene</h2>			

12.5 OTHER ADVERSE EFFECTS :	
12.5.1 GLOBAL WARMING POTENTIAL (GWP)	No known significant effects or critical hazards.
12.5.2 OZONE DEPLETING POTENTIAL (ODP)	No known significant effects or critical hazards.
13 – DISPOSAL CONSIDERATIONS	
13.1 WASTE TREATMENT METHODS :	
13.1.1 PROVISION RELATING TO WASTE	
13.1.2 DISPOSAL METHODS	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. 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	1001
14.1.2 UN PROPER SHIPPING NAME	ACETYLENE, DISSOLVED

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 Islam Oxygen Limited	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG . 016
		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	11 of 12	
<h2>Dissolved Acetylene</h2>			

14.1.3 TRANSPORT HAZARD CLASS (ES) :	
14.1.3.1 HAZARD IDENTIFICATION NUMBER	239
14.1.4 CLASS	
14.1.4.1 CLASSIFICATION CODE	2.1
14.1.5 SPECIAL PRECAUTIONS FOR USER :	
14.1.5.1 SPECIAL PROVISIONS	
14.1.5.2 LIMITED QUANTITIES	Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: Forbidden. Cargo aircraft Quantity limitation: 15 kg
14.2 SEA (IMDG/IMSBC) :	
14.2.1 UN NUMBER	1001
14.2.2 UN PROPER SHIPPING NAME	ACETYLENE, DISSOLVED
14.2.3 TRANSPORT HAZARD CLASS (ES) :	
14.2.3.1 HAZARD IDENTIFICATION NUMBER	239
14.2.3.2 CLASS	2.1
14.2.3.3 CLASSIFICATION CODE	2.1
14.3 AIR (ICAO-TI/IATA-DGR) :	
14.3.1 UN NUMBER	1001

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		DATE OF ISSUE	31/10/2016
	DATE LAST UPDATED	09/11/2019	
	REV. NO.	01	
	PAGE NO.	12 of 12	
<h2>Dissolved Acetylene</h2>			

14.3.2	UN PROPER SHIPPING NAME	ACETYLENE, DISSOLVED
14.3.3	TRANSPORT HAZARD CLASS (ES) :	
	14.4.3.1 CLASS	2.1
14.3.4	SPECIAL PRECAUTIONS FOR USER :	
	14.3.4.1 SPECIAL PROVISIONS	
	14.3.4.2 PASSENGER AND CARGO TRANSPORT, LIMITED QUANTITIES, MAXIMUM NET QUANTITY PER PACKAGING	Passenger and Cargo Aircraft Quantity limitation: 0 Forbidden Cargo Aircraft Only Quantity limitation: 15 kg
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: Not determined United States inventory (TSCA 8b): This material is listed or exempted. Clean Air Act (CAA) 112 regulated flammable substances: acetylene
15.2	CHEMICAL SAFETY ASSESSMENT	
16 – OTHER INFORMATION :		
Ensure Operators understand the flammability hazard. Receptacle under pressure.		

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