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Date: 15/9/2022

Revised edition no:1

Supersedes: 0/0/0

Oxygen (refrigerated)







1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

product name	Oxygen (refrigerated)
Chemical formula	02
company	Gases for medical and industrial gases
Emergency phone numbers	23818102/23818109/23818032
	Hot line 19802

2- COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation

Substance

Substance name	Index Nr	EEC No	CAS No	Contents	Classification
Oxygen (refrigerated)	08-001-00-8	231-956-9	7782-44-7	%100	

Contains no other components or impurities that will influence the classification of the product.



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3- HAZARDS IDENTIFICATION

Hazards identification	Refrigerated liquefied gas. Contact with product may cause cold burns
	or frostbite. Oxidant. Strongly supports combustion. May react
	violently with combustible materials.

4- FIRSTAIDMEASURES

Inhalation	Continuous inhalation of concentrations higher than 75% may
	cause nausea, dizziness, respiratory difficulty and
	convulsion. Remove Victim to uncontaminated area.
Skin/eye contact	Immediately flush eyes thoroughly with water for at least 15
	minutes. In case of frostbite, spray with water for at least 15
	minutes. Apply a sterile dressing. Obtain medical assistance.
Ingestion	Ingestion is not considered a potential route of exposure.

5- FIRE FIGHTING MEASURES

Specific hazards	Supports combustion.
	Exposure to fire may cause containers to rupture/explode.
Flammable Class	Non flammable
Hazardous combustion products	None
Suitable extinguishing media	All known extinguishants can be used.
Specific methods	If possible, stop flow of product. Move away from container away
	and cool with water from a protected position. If leaking do not
	spray water onto container. Water surrounding area (from
	protected position) to contain fire.
Special protective equipment for fire	None.
fighters	



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6- ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate area

Ensure adequate air ventilation.

Eliminate ignition sources. Use protective clothing.

Environmental precautions Try to stop release.

Prevent from entering sewers, basements and work pits, or any place where its accumulation can be

dangerous

Clean up methods Ventilate area. Keep area evacuated and free from

ingition sources until any spilled liquid has evaporated. (Ground free from frost).

7- HANDLING AND STORAGE

Handling Water absorption into the container must be prevented. Do not allow back feeding into the container. Use only properly selected equipment appropriate for this product, supply pressure, and temperature. Contact the	Storage	Segregate from flammable gases and other flammable materials in
feeding into the container. Use only properly selected equipment appropriate for this product, supply pressure, and temperature. Contact the		store. Keep container below 50°C in a well-ventilated place.
Gases Company for Medical and Industrial Gases in Egypt if you are in doubt. Keep away from sources of ignition (including static discharge). Open the valve slowly to avoid pressure shock. Do not use oil or grease. Refer to the instructions for handling containers for medical and industrial gases.	Handling	appropriate for this product, supply pressure, and temperature. Contact the Gases Company for Medical and Industrial Gases in Egypt if you are in doubt. Keep away from sources of ignition (including static discharge). Open the valve slowly to avoid pressure shock. Do not use oil or grease. Refer to the instructions for handling containers for medical and industrial

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection	Do not smoke while handling product. Ensure adequate ventilation.
	Wear suitable hand, body, and head protection. Wear goggles with
	suitable filter lenses when use in cutting/welding Avoid oxygen rich
	(>21%) atmospheres.



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9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State at	Refrigerated	Critical	-118 °C	Solubility mg/l	39 mg/l
20°C	Liquefied	temperature		water	
	gas				
Molecular weight	32	Relative density,	1.1	Appearance/Color	Bluish
		gas (Air=1)			liquid
	-219 °C	Relative density,	1.1		No odor
Melting point		liquid (water=1)		Odor	warning
					properties
Boiling point	-183 °C	Vapor Pressure	20°C Not	Auto ignition	Not
			applicable	temperature	applicable
Flammability	Oxidizer	Other data	Gas/vapor heavier than air. May accumulate		
range			in confined Spaces, particularly at or below		
				ground level.	

10- STABILITY AND REACTIVITY

Stability and reactivity	May react violently with reducing agents. Violently oxidizes
	organic material. Liquid spillages can cause embrittlement of
	structural Materials. Risk of explosion if spilt on organic structural
	materials (e.g. wood or asphalt). May react violently with
	combustible materials.

11- TOXICOLOGICAL INFORMATION

General	No toxicological effects from this product.



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12- ECOLOGICAL INFORMATION

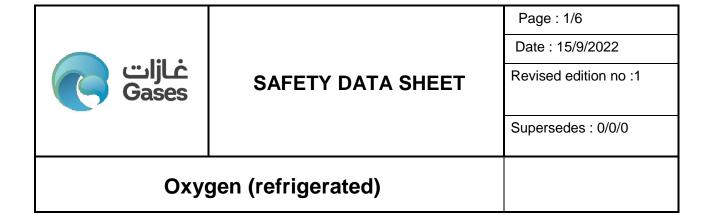
General Can cause frost damage to vegetation.

13- DISPOSAL CONSIDERATIONS

General	to the atmosphere in a well-ventilated place. Do
	not discharge into any place where its
	accumulation Contact a gas company for
	medical and industrial gases if necessary.

14- TRANSPORT INFORMATION

UN Nr	1072
Proper shipping name	Oxygen, refrigerated liquid
Class/Div	2.2
ADR/RID Hazard Nr	2.3
Subsidiary risk	5.1
Hazard Identification Nr ADR/RID	225
Labeling ADR	Label 5.1: Oxidizing substances.
	Label 2.2: non flammable non toxic gas
Other transport information	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.
	Before transporting product containers ensure that they are
	firmly secured and:
	- There is adequate ventilation.
	- Compliance with applicable regulations.



15- OTHER INFORMATION

May cause frostbite. Ensure all national/local regulations are observed. Ensure operators understand the hazard of oxygen enrichment. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. This MSDS is for information purposes only and is subject to change without notice.

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