

Page: 1/6

Date: 15/9/2022

Revised edition no:1

Supersedes: 0/0/0

## Oxygen (Compressed gas)







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

product name	Oxygen (Compressed gas)
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	08-001-00-8	231-956-9	7782-44-7	%100	
(Compressed gas)					

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



Page : 1/6

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#### **3- HAZARDS IDENTIFICATION**

Hazards identification Compressed gas. 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.

## **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.
Special protective equipment for fire fighters	None.



Page : 1/6

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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.

#### 7- HANDLING AND STORAGE

Storage	Segregate from flammable gases and other flammable materials in store. Keep
	container below 50°C in a well-ventilated place.
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 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.

#### **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.



Page : 1/6

Date: 15/9/2022

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#### 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State at	Compressed	Critical	-118 °C	Solubility mg/l	39 mg/l
20°C	gas	temperature		water	
Molecular weight	32	Relative density,	1.1	Appearance/Color	Colorless
		gas (Air=1)			gas
	-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 h	neavier than air. May	accumulate
range			in confined Spaces, particularly at or below		at or below
				ground.	

#### 10- STABILITY AND REACTIVITY

Stability and reactivity

May react violently with reducing agents. Violently oxidizes organic material. May react violently with combustible materials.

#### 11- TOXICOLOGICAL INFORMATION

General No known toxicological effects from this product.

#### 12- **ECOLOGICAL INFORMATION**

General No ecological damage caused by this product.



Page : 1/6

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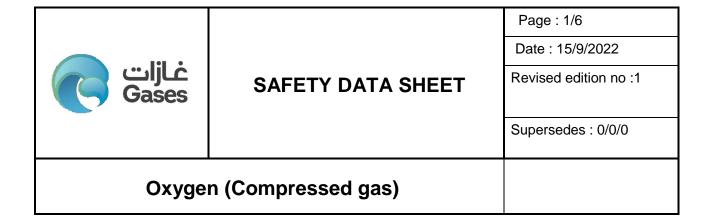
#### 13- DISPOSAL CONSIDERATIONS

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 Compressed gas
Class/Div	2.2
ADR/RID Hazard Nr	2.1
Subsidiary risk	5.1
Hazard Identification Nr ADR/RID	25
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 containers are firmly secured and:
	- Ensure cylinder valve is closed and not leaking.
	- Ensure valve outlet cap nut or plug (where provided) is
	correctly fitted.
	- Ensure valve protection device (where provided) is
	correctly fitted.
	- Ensure there is adequate ventilation.
	- Compliance with applicable regulations.



#### 15- OTHER INFORMATION

Ensure all national/local regulations are observed. Ensure that operators understand the risks of oxygen enrichment. Before this product is used in any new process or experiment, a thorough study of material compatibility and safety should be performed. The details contained herein were believed to be correct at the time of going to press. While proper care has been taken in the preparation of this document, no liability can be accepted for injury or damage resulting from its use. This MSDS is for information purposes only and is subject to change without notice. Before purchasing products, please contact GAZT for medical and industrial gases for a full range.

End of document