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		Date : 15/9/2022
		Revised edition no :1
		Supersedes : 0/0/0
Oxygen (refrigerated)		

 O : Oxidizing	 Label 2.2 : Non flammable, non toxic gas.	 Label 5.1 : Oxidizing substances.
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1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

product name	Oxygen (refrigerated)
Chemical formula	O ₂
company	Gases for medical and industrial gases
Emergency phone numbers	23818102/23818109/23818032 Hot line 19802

2- COMPOSITION/INFORMATION ON INGREDIENTS

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.
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4- FIRSTAID MEASURES

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 fighters	None.

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6- ACCIDENTAL RELEASE MEASURES


Personal precautions	Evacuate area Ensure adequate air ventilation.
Environmental precautions	Eliminate ignition sources. Use protective clothing. 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 ignition sources until any spilled liquid has evaporated. (Ground free from frost).

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.
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9- PHYSICAL AND CHEMICAL PROPERTIES


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

General	No toxicological effects from this product.
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12- ECOLOGICAL INFORMATION


General	Can cause frost damage to vegetation.
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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.
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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.

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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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