	SAFETY DATA SHEET	Page : 1/6
		Date : 15/9/2023
		Revised edition no :1
		Supersedes : 0/0/0
Hydrogen (Compressed Gas)		



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

product name	Helium
Chemical formula	He
company	GASES FOR MEDICAL & INDUSTRIAL GASES CO. – 308-311 – fish pool- south port said industrial zone – port said – EGYPT
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
Helium	--	231-168-5	7440-59-7	%100	--

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

3- HAZARDS IDENTIFICATION

Hazards identification	Compressed gas. In high concentrations may cause asphyxiation.
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	SAFETY DATA SHEET	Page : 1/6
		Date : 15/9/2023
		Revised edition no :1
		Supersedes : 0/0/0
Hydrogen (Compressed Gas)		

4- FIRSTAID MEASURES


Inhalation	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
Ingestion	Ingestion is not considered a potential route of exposure.

5- FIRE FIGHTING MEASURES

Specific hazards	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	In confined space use self-contained breathing apparatus

6- ACCIDENTAL RELEASE MEASURES

Personal precautions Environmental precautions Clean up methods	Evacuate area Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Eliminate ignition sources. Try to stop release. Ventilate area.
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	SAFETY DATA SHEET	Page : 1/6
		Date : 15/9/2023
		Revised edition no :1
		Supersedes : 0/0/0
Hydrogen (Compressed Gas)		

7- HANDLING AND STORAGE

Storage	Keep container below 50°C in a well-ventilated place.
Handling	Suck back of water into the container must be prevented. Do not allow back feed into the container. Use only properly specified equipment, which is suitable for this product, its supply pressure and temperature.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection	Ensure adequate ventilation.
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9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State at 20°C	Compressed gas.	Critical temperature	-268 °C	Solubility mg/l water	1.5 mg/l.
Molecular weight	4	Relative density, gas (Air=1)	0.14	Appearance/Color	Colorless gas
Melting point	Not applicable	Relative density, liquid (water=1)	Not applicable	Odor	No odor warning properties.
Boiling point	-269 °C	Vapor Pressure	Not applicable	Auto-ignition temperature [°C]	Not applicable
Flammability range	Non flammable.				

10- STABILITY AND REACTIVITY

Stability and reactivity	Stable under normal conditions
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11- TOXICOLOGICAL INFORMATION

	SAFETY DATA SHEET	Page : 1/6
		Date : 15/9/2023
		Revised edition no :1
		Supersedes : 0/0/0
Hydrogen (Compressed Gas)		

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

General	No known ecological damage caused by this product.
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13- DISPOSAL CONSIDERATIONS

General	To atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous.
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14- TRANSPORT INFORMATION

UN No	1046
Proper shipping name	Helium, compressed
Class/Div	2.2
ADR/RID Hazard Nr	20
Labeling ADR	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: - Cylinder valve is closed and not leaking. - Valve outlet cap nut or plug (where provided) is correctly fitted. - Valve protection device (where provided) is correctly fitted. - There is adequate ventilation. - Compliance with applicable regulations.

15- REGULATORY INFORMATION

	SAFETY DATA SHEET	Page : 1/6
		Date : 15/9/2023
		Revised edition no :1
		Supersedes : 0/0/0
Hydrogen (Compressed Gas)		

Number in Annex I of Dir 67/548	Not included in Annex I.
EC Classification	Not classified as dangerous preparation.
EC Labelling	No EC labelling required
Symbols	None
Risk phrases	None
Safety phrases	None

16- OTHER INFORMATION

Asphyxiant in high concentrations. Keep container in well ventilated place. Do not breathe the gas. Ensure all national/local regulations are observed. The hazard of asphyxiation is often overlooked and must be stressed during operator training. 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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