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Date: 15/9/2022

Revised edition no :1

Supersedes: 0/0/0

Nitrogen (refrigerated)



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

product name	Nitrogen (refrigerated)
Chemical formula	N2
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
Nitrogen (refrigerated)		231-783-9	7729-37-9	%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. In high concentrations may cause
	asphyxiation.

4- FIRSTAIDMEASURES

Inhalation	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
Skin/eye contact	Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. 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	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. If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire. Move away from container away and cool with water from a protected position. In confined space
Special protective equipment for fire	In confined space use self-contained breathing
fighters	apparatus.



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6- ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate area

Use protective clothing.

Ensure adequate air ventilation.

Wear self-contained breathing apparatus when entering

Area unless atmosphere is proved to be safe.

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	Keep the package at a temperature 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
	Gases Company for Medical and Industrial Gases Egypt if in doubt. Refer
	to the instructions for handling containers of Gases Company for medical
	and industrial gases.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection	Ensure adequate ventilation.
	Protect eyes, face and skin from liquid splashes.



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9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State at	Refrigerated	Critical	-147 °C	Solubility mg/l	20 mg/l
20°C	liquefied gas	temperature		water	
Molecular weight	28	Relative density,	0.97	Appearance/Color	Colorless
3		gas (Air=1)			liquid
	-210 °C	Relative density,	0.8		No odor
Melting point		liquid (water=1)		Odor	warning
					properties
Boiling point	-196 °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				Spaces, particularly	
: s190			231111100	ground.	3. 3. 33.011

10- STABILITY AND REACTIVITY

Stability and reactivity	Stable under normal conditions Liquid spillages can cause	
	embrittlement of structural materials.	

11- TOXICOLOGICAL INFORMATION

General No known toxicological effects from this product.

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.

14-TRANSPORT INFORMATION

UN Nr	1977
Proper shipping name	Nitrogen, Refrigerated liquid
Class/Div	2.2
ADR/RID Hazard Nr	22
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 ventilationCompliance with applicable regulations.



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15- OTHER INFORMATION

May cause frostbite 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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