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SAFETY DATA SHEET

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This document supersedes the MSDS revision 02 dated 17th June, 2023

	This document supersedes the MSDS revision 02 dated 17 th June, 202				
Requirements		Description			
AN	ENTIFICATION ND COMPANY AME	Product details: <u>LIQUID ARGON</u> Supplier Name: National Industrial Gas Plants Address: Salwa Industrial Area Street 45, Gate 75 - Doha Qatar P.O. Box: 1391 Telephone: : <u>Head Office</u> + 974 4468-9083, <u>Sales:</u> 4442-8844, <u>Plant:</u> 4450-00-08 Fax : <u>Head Office</u> +974 4458-3333, <u>Sales:</u> 4450-00-33, <u>Plant:</u> 4460-35-32 E-mail: nigp@qatar.net.qa , sales45@nigpqatar.com Emergency HOT LINE Tel.: + 974-7776-6277 Web Site: https://www.almanaholding.com.qa			
2. HA	AZARD ENTIFICATION	Hazard pictograms: GHS04 – gases under pressure Signal word : Warning Hazard statements: H281-Containsrefrigeratedgas; may cause cryogenic burns or injury. Hazard Class and Category Code Regulation EC 1272/2008 (CLP) Physical hazards: Gases under pressure-Refrigerated liquefied gas-Warning - (CLP: Press. Gas)-H281 Classification EC 67/548 or EC 1999/45: Not classified as dangerous substance/mixture. Precautionary statements - Prevention : P282-Wear cold insulating gloves, face shield, eye protectionResponse : P336+P315-Thawfrostedpartswithlukewarmwater. Do no rub affected area. Get immediate medical advice/attention. Storage : P403 - Store in a well-ventilated place.			
INC	OMPOSITION / GREDIENT ENTIFICATION	Substance/Preparation: Substance UN Number: 1951 EC Classification: Not classified as a dangerous substance Chemical Formula: Ar Substance Name: Argon (refrigerated) Contents: 100% CAS No.: 7440-37-1 EC No.: 231-147-0 Does not contain other components or impurities which will influence the classification of			
4. FIR	RST AID EASURES	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.			



Requirements	Description	
	 Eye/Skin 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. Adverse effects not expected from this product. Ingestion: Ingestion is not considered a potential route of exposure. 	
5. FIRE-FIGHTING MEASURES	 Suitable extinguishing media: All known extinguishants can be used. Specific hazards: Exposure to fire may cause containers to rupture/explode. Hazardous combustion products: None Specific methods: If possible, stop flow of product Coordinate fire measure to the surrounding fire. Cool endangered containers with water spray jet from a protected position. Do not empty contaminated fire water into drains. Move away from the container and cool with water from a protected position. If leaking do not spray water on to container. Water surrounding area (from protected position) to contain fire. 	
6. ACCIDENTAL RELEASE MEASURES	 Special protective equipment for fire fighters: In confined space use self-contained breathing apparatus. Personal Precautions: Try to stop release. Evacuate area. Ensure adequate air ventilation. Use protective clothing. 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. Cleanup Methods: Ventilate area. 	
7. STORAGE AND HANDLING	Safe use of the product: Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Only experienced and properly instructed person should handle gases under pressure. The product must be handled in accordance with good industrial hygiene and safety procedures. Do not smoke while handling product. Ensure the complete gas system was (or is regularly) checked for leaks before use. Safe Handling of the gas receptacle:	



Requirements	Description	
Requirements	 Never attempt to repair or modif Damaged valves should be report Keep container valve outlets cleated Replace valve outlet caps or plught container is disconnected from expected from expec	n and free from contaminates particularly oil and water. It is and container caps where supplied as soon as quipment. Juse and when empty, even if still connected to insfer gases from one cylinder/container to another. It is all heating devices to raise the pressure of a container. It is incorded by the supplier for the identification of the stainer must be prevented. Justician container. Justician container if in doubt. Justician conditions. Justician conditions likely to encourage of containers. Justician conditions likely to encourage corrosion. Justician conditions and properly secured to prevent condition and leakage. Justician condition and leakage.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION	 Appropriate engineering Controls: Systems under pressure should be regularity checked for leakages. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities. Personal Protection / Protective equipment: Ensure adequate ventilation. A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered. Wear safety glasses with side shields. Wear leather safety gloves and safety shoes when handling cylinders. Ensure adequate ventilation. Protect eyes, face and skin from liquid splashes. Other Environmental exposure controls: Refer to local regulations for restriction of emissions to the atmosphere. See section13 for specific methods for waste gas treatment. 	
9. PHYSICAL AND CHEMICAL PROPERTIES	Information on basic physical and ch Appearance Physical state at 20°C /101.3kPa Colour Odour Odour threshold pH Molar mass [g/md]	



Requirements	Description		
	Melting point [°C]	: -189	
	Boiling point [°C]	: -186	
	Critical Temperature [°C]	: -122	
	Flash point [C]	: Not applicable for gas-mixtures.	
	Evaporation rate (ether=1)	: Not applicable for gas-mixtures.	
	Flammability rang [2vol% / in air]	: Not flammable	
	Vapour pressure [20℃]	: Not applicable	
	Relative density, liquid (water=1)	: 1.4	
	Relative density, gas (air=1)	: 1.38	
	Solubility in water [mg/l]	: 67	
	Partition coefficient n-octanol/water	: Not applicable for gas-mixtures.	
	Viscosity at 20℃ [mPa.s]	: Not applicable	
	Explosive Properties	: Not applicable	
	Molecular Weight	: 40	
	Dew Point ^O F	: - 90	
	Other information		
		than air. May accumulate in confined spaces,	
	Stability and Reactivity:		
	3	e effects described in sub-sections below.	
	Stable under normal conditions.		
10. STABILITY AND	Liquid spillages can cause embrittle	ement of structural materials.	
REACTIVITY	Chemical stability:		
	Stable under normal conditions. I larger device description products and description and description and description.		
	Hazardous decomposition products :Under normal conditions of storage and use, hazardous decomposition products should		
	not be produced.	e and use, nazardous decomposition products should	
11. TOXICOLOGICAL	Toxicology Information: No known toxicological effects from this product.		
INFORMATION 12. ECOLOGICAL			
INFORMATION	Ecological Effects Information: Can cause frost damage to vegetation		
	Waste treatment methods		
	May be vented to atmosphere in a well ventilated place.		
	Do not discharge into any place where its accumulation could be dangerous. Pefor to the code of protice of EICA (Dec 30/10 // Dispense) of Coses, down leadable at		
13. DISPOSAL	Refer to the code of practice of EIGA (Doc.30/10 "Disposal of Gases, down loadable at http://www.eiga.org) for more guidance on suitable disposal methods.		
CONSIDERATIONS	Contact supplier if guidance is required.		
	General	un cu.	
		here its accumulation could be dangerous.	
	 Contact supplier if guidance is requ 		
	UN number : UN 1951	un cu.	
	HS Code : 84314990		
	Labeling		
14. TRANSPORT	NON-FLAMMABLE		
INFORMATION	GAS		
	: 2.2 : Non Flammable, non toxic gas.		
	Land transport		
	UN proper shipping name: ARGON, REF	FRIGERATION LIQUID	



Requirements	Description
	Transportation hazard class(es): 2 Classification code: 3 A Packing group: 0 Packing Instruction(s): P203 Tunnel Restriction : C/E Tank carriage: Passage forbidden through tunnels of category C, D and E: Other carriage: Passage forbidden through tunnels category E. HAZCHEM – Emergency Action Code: 2T 2 = Fine water spray. T=Recommended personal protective equipment: Full fire kit and breathing apparatus. Appropriate measures: dilute Sea transport Proper shipping name: ARGON, REFRIGERATION LIQUID Hazard class(es): 2.2 Emergency Schedule (EmS) - Fire: F-C Emergency Schedule (EmS) - Spillage: S-V Packing Instruction(s): P203 Air transport Proper shipping name: ARGON, REFRIGERATION LIQUID Hazard class(es): 2.2 Passenger and Cargo Aircraft: Allowed Packing instruction – Passenger and Cargo Aircraft: 202 Special precautions for user 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.
	 in the event of an accident or an emergency. Before transporting product containers. Ensure there is adequate ventilation. Ensure that containers are firmly secured. 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.
	Other transport informationCompliance with applicable regulations.
Safety, health and environmental regulations/legislation specific for the sumixture EU Legislation / Seveso directive 96/82/EC : Not covered National legislation: Ensure all national/local regulations are observed. Chemical safety Assessment: A CSA does not need to be carried out for Risk Phrases : May cause frostbite. : Asphyxiant in high concentrations. Safety Phrases: Keep container in well-ventilated place. : Use suitable protective equipment.	
Indication of changes / Training Advice Revised safety data sheet in accordance with commission regulation (EU) No.453/20 Asphyxiant in high concentrations. Keep container in a well-ventilated place. Do not breathe the gas. May cause frostbite. Wear suitable protective clothing. The hazard of asphyxiation is often overlooked and must be stressed during operator training.	



Requirements	Description
	 Ensure all national/local regulations are observed. Receptacle under pressure.
	Further information
	Classification in accordance with calculation methods of regulation (EC) 1272/2008CLP / (EC) 1999/45DPD.
	This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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