


SAFETY DATA SHEET


This document supersedes the MSDS revision 02 dated 17th June 2021

Requirements	Description
1. IDENTIFICATION AND COMPANY NAME	<p>Product details: <u>ARGON</u></p> <p>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</p>
2. HAZARD IDENTIFICATION	<p>Hazard pictograms:</p>  <p>GHS04 – gases under pressure Signal word : Warning Hazard statements: H280 - Contains gas under pressure; may explode if heated. Not classified as dangerous substance/mixture. Gases under pressure – Compressed gas – Warning – (CLP: Press. Gas) – H280 Precautionary statements - storage: P403 Store in a well-ventilated place.</p>
3. COMPOSITION / INGREDIENT IDENTIFICATION	<p>Substance / Preparation : Substance Components: This product is not hazardous. Chemical Formula : Ar Substance Name : Argon Contents : 100% CAS No. : 007440-37-1 EC No. : 231-147-0 Classification: Press. Gas (H280) Contains no other components or impurities which will influence the classification of the product.</p>
4. FIRST AID MEASURES	<p>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. Eye / Skin Contact : Adverse effects not expected from this product. Ingestion: Ingestion is not considered a potential route of exposure.</p>
5. FIRE-FIGHTING MEASURES	<p>Extinguishing media : Suitable extinguishing media: All know extinguish ants can be used.</p> <p>Specific Hazards arising from the substance or mixture:</p> <ul style="list-style-type: none"> • Specific hazards: Exposure to fire may cause containers to rupture/explode.



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	<ul style="list-style-type: none"> • Hazardous combustion products: None <p>Specific Methods:</p> <ul style="list-style-type: none"> • 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 firewater into drains. • Move away from the container and cool with water from a protected position. <p>Special protective equipment for fire fighters:</p> <ul style="list-style-type: none"> • In confined use self-contained breathing apparatus.
<p>6. ACCIDENTAL RELEASE MEASURES</p>	<p>Personal Precautions, protective equipment and emergency procedure :</p> <ul style="list-style-type: none"> • Ensure adequate air ventilation • Try to stop release. • Evacuate area • Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. <p>Environmental Precautions:</p> <ul style="list-style-type: none"> • Try to stop release. • Prevent from entering sewers, basements and work pits, or anywhere its accumulation can be dangerous. <p>Methods and material for containment and Cleaning up:</p> <ul style="list-style-type: none"> • Ventilate area.
<p>7. STORAGE AND HANDLING</p>	<p>Precautions for safe handling:</p> <ul style="list-style-type: none"> • 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 persons 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. <p>Precautions for safe handling:</p> <ul style="list-style-type: none"> • Refer to supplier's container handling instructions. • Do not allow back feed into the container. • Protect cylinders from physical damage: do not drag, roll, slide or drop. • When moving cylinders, even for short distance, use a cart (trolley, hand truck, etc.) designed to transport cylinders. • Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. • If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. • Never attempt to repair or modify container valves or safety relief devices. • Damaged valves should be reported immediately to the supplier. • Keep container valve outlets clean and free from contaminates particularly oil and water. • Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. • Close container valve after each use and when empty, even if still connected to equipment. • Never attempt to transfer gases from gases from one cylinder/container to another. • Never use direct flame or electrical heating devices to raise the pressure of a container. • Do not remove or deface labels provided by the supplier for the identification of

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	<p>the cylinder contents.</p> <ul style="list-style-type: none"> Suck back of water into the container must be prevented. <p>Condition for safe storage:</p> <ul style="list-style-type: none"> Keep away from combustible materials. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Containers should be stored in the vertical position and properly secured to prevent toppling. Stored containers should be periodically checked for general condition and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition.
<p>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</p>	<p>Exposure controls / Appropriate engineering controls:</p> <ul style="list-style-type: none"> Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities. <p>Other Protective Equipment:</p> <ul style="list-style-type: none"> A risk assessment should be conducted and documented in each work area to assess the risk related to the use of product and to select the PPE that matches the relevant risk. Wear safety glasses with side shields. Wear leather safety gloves and safety shoes when handling cylinders. <p>Environmental exposure controls: Refer to local regulations for restriction of emissions to atmosphere.</p>
<p>9. PHYSICAL AND CHEMICAL PROPERTIES</p>	<p>Information on basic physical and chemical properties:</p> <p>Appearance</p> <p>Physical State at 20°C / 101.3kPa : Gas</p> <p>Colour : Colourless</p> <p>Odour : No odour warning properties</p> <p>Odour threshold : Odour threshold is subjective and inadequate to warn for overexposure.</p> <p>pH value : Not applicable for gas-mixtures</p> <p>Molar mass (g/mol) : Not applicable for gases and gas-mixtures.</p> <p>Dew Point °F (°C) : - 90 (-67.8)</p> <p>Specific Volume of gas : 0.606 m³/kg @ 70°F (21 °C)</p> <p>Melting point (°C) : -189 (-308.6°F)</p> <p>Boiling point (°C) : -186 (-302.6°F)</p> <p>Critical temperature (°C) : -122 (-188.1°F)</p> <p>Flash point (°C) : Not applicable for gas-mixtures.</p> <p>Evaporation rate (ether=1) : Not applicable for gas-mixtures.</p> <p>Flammability range [vol% in air] : Non flammable</p> <p>Vapour pressure [20°C] : Not applicable.</p> <p>Relative density, gas (air=1) : 1.38</p> <p>Relative density, liquid (water=1) : Not applicable.</p> <p>Solubility in water [mg/l] : 61</p> <p>Partition coefficient n-octanol/water : Not applicable for gas-mixtures.</p> <p>Viscosity at 20°C [mPa.s] : Not applicable.</p> <p>Explosive Properties : Not applicable.</p> <p>Molecular weight : 40</p>

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	Other Information: Gas/vapour heavier than air. May accumulate in confined space, particularly at or below ground level.
10. STABILITY AND REACTIVITY	Reactivity <ul style="list-style-type: none"> No reactivity hazard other than the effects described in sub-sections below. Stable under normal conditions Chemical stability: <ul style="list-style-type: none"> Stable under normal conditions. Hazardous decomposition products: <ul style="list-style-type: none"> Under normal conditions of storage and use, hazardous decomposition products should not be produced.
11. TOXICOLOGICAL INFORMATION	Information on toxicological effects: Skin corrosion/irritation : No known effects from this product. Serious eye damage/irritation : No known effects from this product. Rat Inhalation LC50 (ppm/4h) : No data available. Toxicity information : No known toxicological effects from this product. Acute toxicity : No known toxicological effects from this product. Respiratory or skin sensitization: No known effects from this product. STOT-Single exposure : No known effects from this product. STOT-Repeated exposure : No known effects from this product. Aspiration Hazard : Not applicable for gases and gas-mixtures
12. ECOLOGICAL INFORMATION	TOXICITY: No data available Other adverse effects Ecological effects information: No known ecological damage caused by this product.
13. DISPOSAL CONSIDERATIONS	Waste treatment methods <ul style="list-style-type: none"> May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Refer to the code of practice of EIGA (Doc.30/10"DisposalofGases, downloadable at http://www.eiga.org) for more guidance on suitable disposal methods. Contact supplier if guidance is required. General <ul style="list-style-type: none"> May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.
14. TRANSPORT INFORMATION	UN Number : 1006 HS Code : 28042100 Labeling <div style="text-align: center;">  </div> : 2.2 : Non Flammable, nontoxic gas. <u>Land transport</u> Proper shipping name : ARGON, Compressed, Hazard class(es) : 2 Classification code : 1 A Packing Instruction(s) : P200 Tunnel Restriction: E: Passage forbidden through tunnels of 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. <u>Sea transport</u> Proper shipping name : ARGON, Compressed Hazard class(es) : 2.2 Emergency Schedule (EmS) - Fire : F-C Emergency Schedule (EmS) - Spillage : S-V

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	<p>Packing Instruction(s) : P200</p> <p><u>Air transport</u> Proper shipping name : ARGON, Compressed Hazard class(es) : 2.2 Passenger and Cargo Aircraft : Allowed Packing instruction – Passenger and Cargo Aircraft : 200</p> <p><u>Special precautions for user</u></p> <ul style="list-style-type: none"> • Avoid transport on vehicles where the load space is not separated from the driver's compartment. • Ensure vehicle driver is a ware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. <p>Before transporting product containers.</p> <ul style="list-style-type: none"> • 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. • Compliance with applicable regulations.
<p>15. REGULATORY INFORMATION</p>	<p><u>Safety, health and environmental regulations/legislation specific for the substance or mixture</u></p> <ul style="list-style-type: none"> • 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 this product. <p>Classification: Not listed as an extremely hazardous substance. : Not listed as toxic chemical. : Not listed as a regulated substance.</p>
<p>16. OTHER INFORMATION</p>	<p>Indication of changes</p> <ul style="list-style-type: none"> • Revised safety data sheet in accordance with commission regulation (EU) No453/2010. • Ensure all national/local regulations are observed. • Receptacle under pressure. • Asphyxiate in high concentrations. • Keep container in a well-ventilated place. • Do not breathe the gas. • The hazard of asphyxiation is often overlooked and must be stressed during operator training. <p>Further information</p> <ul style="list-style-type: none"> • Classification in accordance with calculation methods of regulation (EC) 1272/2008CLP / (EC)1999/45DPD. <p>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.</p>

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