


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>AIR, COMPRESSED</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. Physical hazards: Gases under pressure – Compressed gas – Warning – (CLP: Press. Gas) – H280 Precautionary statements - storage: Store in a well-ventilated place.</p>									
3. COMPOSITION / INGREDIENT IDENTIFICATION	<p>Substance/Preparation : Substance UN Number : 1002 Substance / Chem. Name : Air (compressed, atmospheric) Contents : 100% Mixed Air is a mixture of gases: The primary components of air, and the approximate concentration of each component, are listed below:</p> <table border="1"> <thead> <tr> <th>Chemical Name</th> <th>Mole %</th> <th>Exposure in Air</th> </tr> </thead> <tbody> <tr> <td>Nitrogen</td> <td>79%</td> <td>There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiate (SA). Oxygen levels should be maintained above 19.5%.</td> </tr> <tr> <td>Oxygen</td> <td>21%</td> <td>There are no specific exposure limits for Oxygen.</td> </tr> </tbody> </table> <p>Contains no other components or impurities which will influence the classification of the product. .</p>	Chemical Name	Mole %	Exposure in Air	Nitrogen	79%	There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiate (SA). Oxygen levels should be maintained above 19.5%.	Oxygen	21%	There are no specific exposure limits for Oxygen.
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4. FIRST AID MEASURES	<p>Description of first aid measures :</p> <ul style="list-style-type: none"> No special protection required where adequate ventilation is maintained. <p>- Inhalation: Adverse effects not expected from this product. - Skin contact: Adverse effects not expected from this product.</p>									



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	<p>- Eye contact: Adverse effects not expected from this product.</p> <p>- Ingestion: Ingestion is not considered a potential route of exposure.</p>
<p>5. FIRE-FIGHTING MEASURES</p>	<p>Extinguishing media :</p> <ul style="list-style-type: none"> • Suitable extinguishing media: All know extinguishants can be used. <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. <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>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. <p>Environmental Precautions:</p> <ul style="list-style-type: none"> • None • No special procedure required. <p>Methods and material for containment and Cleaning up:</p> <ul style="list-style-type: none"> • None • No special decontamination procedures needed.
<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 the cylinder contents.

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	Condition for safe storage: <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.
8. EXPOSURE CONTROLS/ PERSONAL PROTECTION	Exposure controls / Appropriate engineering controls: <ul style="list-style-type: none"> Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation. Other Protective Equipment: <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.
9. PHYSICAL AND CHEMICAL PROPERTIES	Information on basic physical and chemical properties Appearance Physical state at 20°C /101.3kPa : Gas Colour : Colourless gas. Odour : No odour warning properties. Odour threshold : Odour threshold is subjective and in adequate to warn for over exposure. pH value : Not applicable for gas-mixtures. Molar mass [g/mol] : Not applicable for gases and gas-mixtures. Melting point [°C] : Not applicable for gas-mixtures. Boiling point [°C] : Not applicable for gas-mixtures. Flash point [°C] : Not applicable for gas-mixtures. Evaporation rate (ether=1) : Not applicable for gas-mixtures. Flammability range[vol% in air] : Not applicable for gas-mixtures. Vapour pressure [20°C] : Not applicable Relative density, gas (air=1) : Lighter or similar to air. Solubility in water [mg/l] : 20 Boiling Point (°C) : -194.3 (-317.8°F) Freezing Point (°C) : -216.2 (-357.2°F) Critical Temperature (°C) : -140.6 (-221.1°F) Critical pressure : 36.7 bar(g) Molecular Weight : 28.9 Dew Point °F (°C) : - 65 (-53.9) Specific Volume of gas : 0.8333 m ³ /kg @ 70°F (21 °C) Partition co efficient n-octanol / water : Not applicable for gas-mixtures. Viscosity at 20°C [mPa.s] : Not applicable. Explosive Properties : Not applicable. Other Information : None
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

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	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: No known toxicological effects from this product.
12. ECOLOGICAL INFORMATION	Ecological Effects Information: No known ecological effects from this product.
13. DISPOSAL CONSIDERATIONS	General: <ul style="list-style-type: none"> May be vented to atmosphere in a well ventilated place. Contact supplier if guidance is required. 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 "Disposal of Gases, downloadable at http://www.eiga.org) for more guidance on suitable disposal methods. Contact supplier if guidance is required.
14. TRANSPORT INFORMATION	UN Number : 1002 HS code : 90200000 Labeling  : 2.2 Non Flammable, non toxic gas Land transport (ADR/RID) Proper Shipping Name: AIR, COMPRESSED, 2.2, 1A Transport hazard class(es) : 2 Classification code: 1 A Packing group: A Packing Instruction(s): P200 HAZCHEM – Emergency Action Code : 2T 2 = Fine water spray T = Recommended personal protective equipment : Full fire and breathing apparatus. Appropriate measures: dilute. Sea / Air transport Proper shipping name: AIR,COMPRESSED Class: 2.2 Emergency Schedule (EmS) – Fire: F-C S-V Emergency Schedule (EmS) – Spillage: S-V Passenger and cargo Aircraft: Allowed Packing instruction – Passenger and Cargo Aircraft: 200 Special precautions / information for user <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 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: <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 plug (where provided) is correctly fitted.

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	<ul style="list-style-type: none"> - Ensure valve protection device (where provided) is correctly fitted. - Compliance with applicable regulations. <p>Personal precautions: The driver shall not attempt to deal with any fire of the load.</p> <p>Emergency action in case of accident:</p> <ul style="list-style-type: none"> • Stop the engine. • No naked lights. No smoking. • Keep public away from danger area. • NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY
15. REGULATORY INFORMATION	<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.
16. OTHER INFORMATION	<p>Indication of changes:</p> <ul style="list-style-type: none"> • Revised safety data sheet in accordance with commission regulation (EU) No 453/2010 <p>Training advice:</p> <ul style="list-style-type: none"> • Keep container in well-ventilated place. • Ensure all national/local regulations are observed. • Receptacle under pressure. <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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