



SAFETY DATA SHEET

This document supersedes the MSDS revision 02 dated 17<sup>th</sup> June, 2021

Requirements	Description
1. IDENTIFICATION AND COMPANY NAME	<p>Product details: <u>NITROGEN</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: <a href="mailto:nigp@qatar.net.qa">nigp@qatar.net.qa</a> , <a href="mailto:sales45@nigpqatar.com">sales45@nigpqatar.com</a> Emergency HOT LINE Tel.: + 974-7776-6277 Web Site: <a href="https://www.almanaholding.com.qa">https://www.almanaholding.com.qa</a></p>
2. HAZARD IDENTIFICATION	<p>Hazard Pictogram:</p>  <p>GHS04 – gases under pressure Signal word : Warning, Compressed gas Hazards Identification : Contains gas under pressure. : May explode if heated. Emergency Overview : Asphyxiate in high concentrations; do not breathe gas Nitrogen is nontoxic, but may cause suffocation by displacing the oxygen in air. Route of Entry : Inhalation Storage : Store in well-ventilated place</p>
3. COMPOSITION / INGREDIENT IDENTIFICATION	<p>Substance/Preparation : Substance UN Number : 1066 Use: Analytical chemistry. Industrial applications. Components: This product is not hazardous. Chemical Formula : N<sub>2</sub> Substance Name : Nitrogen Contents : 100% CAS No. : 007727-37-9 EC No. : 231-783-9 Contains no other components or impurities which will influence the classification of the product.</p>
4. FIRST AID MEASURES	<p>First Aid Measures</p> <p>-Inhalation : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness, dizziness, drowsiness and nausea. Victim may not be aware of asphyxiation. Lack of sufficient oxygen may cause serious injury or death. Remove victim to uncontaminated area and wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.</p> <p>-Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eye lids. Get medical attention immediately.</p> <p>- Ingestion : Ingestion is not considered a potential route of exposure.</p>



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5. FIRE-FIGHTING MEASURES	<p>Flammable Class : Non-Flammable</p> <p>Specific Hazards : Exposure to fire may cause containers to rupture/explode.</p> <p>Specific Methods : If possible stop flow of product. Move away from the container and cool with water from protected position.</p> <p>Special Protective Equipment For Fire Fighters : Fire fighters should wear appropriate protective Equipment and self-contained breathing apparatus.</p>
6. ACCIDENTAL RELEASE MEASURES	<p>Personal Precautions :</p> <ul style="list-style-type: none"> <li>• Evacuate area</li> <li>• Ensure adequate air ventilation; isolate area until gas has dispersed Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.</li> <li>• Ensure adequate ventilation.</li> </ul> <p>Environmental Precautions: Try to stop release.</p> <p>Clean Up Methods : Ventilation area</p>
7. STORAGE AND HANDLING	<p>Handling</p> <ul style="list-style-type: none"> <li>• Suck back of water into the container must be prevented</li> <li>• Do not allow back feed into the container</li> <li>• Open valve slowly to avoid pressures hock</li> <li>• Close valve after each use and when empty.</li> <li>• Never allow any unprotected part of the body to touch un-Insulated pipes or vessels that contain cryogenic liquids.</li> <li>• Protect cylinders from physical damage; do not drag, slide or drop. Use suitable hand truck for cylinder movement.</li> <li>• Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Refer to suppliers' container handling instructions.</li> </ul> <p>Storage : Keep container below 50<sup>o</sup>C in a well-ventilated place. : Cylinders should be stored upright and firmly secured.</p>
8. EXPOSURE CONTROLS / PERSONAL PROTECTION	<p>Personal Protection : Ensure adequate ventilation : Oxygen levels in work area should be monitored. : Personal protective equipment for the body should be Selected based on the task being performed.</p> <p>Other Protective Equipment: Safety shoes are recommended when handling cylinders insulated gloves when handling low temperatures.</p>
9. PHYSICAL AND CHEMICAL PROPERTIES	<p>Physical State at 20<sup>o</sup>C : Gas</p> <p>Colour : Colourless</p> <p>Odour : No odour warning properties</p> <p>Molecular Weight : 28</p> <p>Dew Point <sup>o</sup>F (<sup>o</sup>C) : - 90 (-67.8)</p> <p>Specific Volume of gas : 0.867m<sup>3</sup>/kg @ 70°F (21<sup>o</sup>C)</p> <p>Melting Point(<sup>o</sup>C) : -210 (-345.8°F)</p> <p>Boiling Point (<sup>o</sup>C) : -196 (-320.4°F)</p> <p>Critical Temperature(<sup>o</sup>C) : -147 (-232.4°F)</p> <p>Vapour Pressure(20<sup>o</sup>C) : Not applicable</p> <p>Relative density, liquid (water=1) : Not applicable</p> <p>Relative Density, gas (air=1) : 0.97</p> <p>Solubility in Water (mg/l) : 20</p>
10. STABILITY AND REACTIVITY	<p>Hazardous Decomposition</p> <p>Products : None</p> <p>Chemical Stability: Stable under normal conditions.</p>

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11. TOXICOLOGICAL INFORMATION	Toxicology Information: No known toxicological effects from this product. Acute Dose Effects : Simple asphyxiates.								
12. ECOLOGICAL INFORMATION	Ecological Effects Information: No known ecological damage caused by this product. Other Adverse Effects: None								
13. DISPOSAL CONSIDERATIONS	General: Do not discharge into a place where its accumulation could be dangerous. Secure cylinder and slowly discharge to atmosphere in well-ventilated area. Product removed from the cylinder must be disposed of in accordance with appropriate regulation. Contact supplier if guidance is required.								
14. TRANSPORT INFORMATION	<p>UN Number : 1066            HS Code : 2804300            Labeling ADR : 2.2 Non Flammable gas, non-toxic gas</p>  <p>Proper Shipping Name : NITROGEN, COMPRESSED            Other Transport Information: Avoid transport on vehicles where the load space is not separated from driver’s compartment. Ensure driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.</p> <p>Before Transporting Product Containers :</p> <ul style="list-style-type: none"> <li>• Ensure all containers are firmly secured</li> <li>• Ensure cylinder valve is closed and not leaking</li> <li>• Ensure valve outlet cap nut/plug (where provided) is correctly fitted</li> <li>• Ensure valve protection device (where provided) is correctly fitted</li> <li>• Ensure there is adequate ventilation.</li> <li>• Compliance with applicable regulations.</li> </ul>								
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"> <li>• National legislation: Ensure all national/local regulations are observed.</li> </ul> <p>Classification: Not listed as an extremely hazardous substance.            : Not listed as toxic chemical.            : Not listed as a regulated substance.</p>								
16. OTHER INFORMATION	<p>Training advice:</p> <ul style="list-style-type: none"> <li>• Asphyxiate in high concentrations</li> <li>• Do not breath the gas</li> <li>• Keep container in well-ventilated place.</li> <li>• Contact with liquid may cause burns/frostbite</li> <li>• Wear suitable protective clothing</li> <li>• The hazard of asphyxiation is often overlooked and must be stressed during operator training.</li> <li>• Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.</li> </ul> <p><u>Hazard Ratings:</u></p> <table> <tr> <td>NFPA RATINGS :</td> <td>HMIS RATINGS:</td> </tr> <tr> <td>Health : 0</td> <td>Health : 0</td> </tr> <tr> <td>Flammability: 0</td> <td>Flammability: 0</td> </tr> <tr> <td>Reactivity: 0</td> <td>Reactivity: 0</td> </tr> </table> <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>	NFPA RATINGS :	HMIS RATINGS:	Health : 0	Health : 0	Flammability: 0	Flammability: 0	Reactivity: 0	Reactivity: 0
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