

Version 3.2 - 16/3/2012

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

Product Identifier/Name:	Nitrogen
Chemical Formula:	N2
Uses of the substance:	Drinks dispense & Industrial.
Restrictions on use:	No data available
Company Identification:	Gas Link Direct
Emergency Telephone No:	07789 996928 / 01443 222092
Email:	admin@gaslinkdirect.co.uk
2. HAZARDS IDENTIFICATION:	
Classification according to regulation 12 Compressed Gas H280: Contains gas under	
Label elements according to regulation Hazard pictograms/symbols	1272/2008 (CLP)
Signal Word:	Warning
Hazard Statements:	H280: Contains gas under pressure. May explode if heated.
Precautionary Statements:	P403: Store in well-ventilated area.
Classification (Directive)	
Not a hazardous substance or preparation No EC labelling required	according to EC-directives 67/548EEC or 1999/45/EC
Other Hazards	

High Pressure Gas.

Can cause rapid suffocation.

Self contained breathing apparatus (SCBA) may be required



SAFETY DATA SHEET - NITROGEN Version 3.2 - 16/3/2012

3. COMPOSITION/ INFORMATION ON INGREDIENTS

CAS Number: EEC Number: Concentration: Classification (CLP)	7727-37-9 231-783-9 (from EINECS) 100% Pressurised gas.	
4. FIRST AID MEASURES		
Description of first aid measures:		
General advice:	Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing has stopped	
Eye & Skin Contact:	Not applicable	
Ingestion:	Not applicable.	
Inhalation:	Move victim to fresh air. If breathing has stopped, apply artificial respiration. In case of shortness of breath, give oxygen. Keep victim warm and rested. Call Doctor.	
Symptoms:	Dizziness, Salivation, loss of coordination and mobility, vomiting and nausea. In extreme cases, loss of consciousness.	
5. FIRE FIGHTING MEASURES		
Suitable Extinguishing Media:	All known extinguishing media can be used.	
Specific Hazards:	Exposure to fire may cause containers to rupture/ explode. Non-flammable. Move away from container and cool cylinder with water from a protected position	
Advice for firefighters:	If necessary, use self-contained breathing	

apparatus.



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate area. Wear self-contained breathing apparatus when

entering area. Monitor oxygen levels and ventilate area until proven

safe.

Environmental Precautions: Prevent discharge in any place where its accumulation could be

dangerous. Prevent further leakage if safe to do so

Clean Up Methods: Ventilate area.

Additional advice: Increase ventilation to the release area and monitor concentrations. If

leak is from cylinder or cylinder valve, call the Gas-Link Wales emergency number. If leak is in the users system, close the cylinder valve, safely vent the pressure, and safely vent the pressure before

attempting repairs.

7. HANDLING AND STORAGE

Store in segregated area away from combustible material.

Protect cylinders from physical damage; do not drag, roll, slide or drop. Do not allow storage area temperature to exceed 50°C (12°2F). Only experienced and properly trained persons should handle compressed gases/cryogenic liquids. Before using the product determine its identity by reading the label. Know and understand the properties and hazards of the product before use. When in doubt as to the correct handling procedure for a particular gas, contact the supplier.

Do not remove or deface content identifying labels. When moving cylinders, even for short distances, use cylinder trolley or hand truck designed to transport cylinders. Leave valve protection guards in place. Secure cylinders against either a wall or bench or place in a cylinders stand. Before connecting cylinder, check the complete gas system for suitability, in particular check pressure rating and material compatibility. Open valve slowly. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. Close cylinder valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be immediately reported to the supplier.

Do not subject cylinders to abnormal mechanical shocks which may cause damage to their valve or safety devices. Never attempt to lift a cylinder by its valve protection cap or guard. Do not use cylinders as rollers or supports or for any purpose other than to contain the gas as supplied. Never strike an arc on a compressed gas cylinder or make a cylinder part of an electrical circuit. Do not smoke while handling product or cylinders. Never recompress a gas or a gas mixture. Never attempt to transfer gases from one cylinder to another. Always use backflow protection devices in piping. Never use direct flame or electrical heating devices to raise the pressure of a cylinder. Prolonged periods of cold temperature below -30° C ($20F^{\circ}$) should be avoided. Suck back of water into container must be prevented. Purge air from system before introducing gas. Do not allow back feed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature.



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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters:

Exposure Controls: Always used in a closed system. Provide Natural or mechanical ventilation to

prevent accumulation above exposure limits. Systems should be regularly

checked for leakage. Oxygen detectors should be used

Personal protective equipment

Respiratory protection: Self-contained breathing apparatus (SCBA) or positive pressure airline with

mask are to be used in oxygen deficient atmosphere.

Air purifying respirators will not provide protection. Users of breathing

apparatus must be trained.

Hand protection: Sturdy work gloves are recommended for handling cylinders. The

breakthrough time of the selected gloves must be greater than the intended

use period.

Eye protection: Safety glasses recommended when handling cylinders.

Skin & body protection: Safety footwear is recommended when handling cylinders.

Special instructions for

protection and hygiene: Ensure adequate ventilation, especially in confined areas.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/ Colour: Compressed gas, Colourless gas.
Odour: No odour warning properties

Odour threshold:

pH:

Not applicable

Not applicable

Not applicable

-210 °C (-346 °C)

Boiling point range:

-196 °C (-321 °F)

Flash point:

Evaporation Rate

Flammability (solid/gas)

No data available

Upper/Lower

Explosion/flammability limit: No data available Vapour pressure: Not Applicable

Water solubility: 0.02 g/l
Relative vapour density: 0.97 (air = 1)
Relative density: No data available

Partition coefficient

(n-octanol/water)

Auto ignition temperature:

Decomposition temperature:

Viscosity:

Explosive properties:

Oxidizing properties:

Not applicable

No data available

No data available

No data available

No data available

Molecular weight: 28 g/mol

Density: 0.0012 g/cm³ (0.075lb/ft³) at 21°C (70°F) Note: (as vapour)

Specific volume: 0.8615 m³/kg at 21°C (70°F)

10. STABILITY AND REACTIVITY

Reactivity: Refer to possibility of hazardous reactions and/or incompatible

materials sections.

Chemical Stability: Stable under normal conditions.

Possibility of

hazardous reactions: No data available. Conditions to avoid: No data available.

Hazardous decomposition

products: No data available.



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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects.

Effects on eyes: No adverse effect.

Effects on skin: No adverse effect.

Inhalation effects: May cause asphyxiation in high concentrations. Symptoms can

include rapid loss of consciousness.

Ingestion effects: Ingestion is not considered a potential route of exposure.

Symptoms: Exposure to oxygen deficient atmosphere may cause the following

symptoms; dizziness, Salivation, Nausea, Vomiting, Loss of

mobility/consciousness.

Acute oral toxicity: No data available on the product itself.

Inhalation: No data available on the product itself

Acute dermal Toxicity: No data available on the product itself.

Skin corrosion/irritation: No data available

Serious eye damage

/eye irritation: No data available

Sensitisation: No data available.

Chronic toxicity or effects from long-term exposure.

Carcinogenicity: No data available

Reproductive toxicity: No data available on the product itself.

Gem cell mutagenicity: No data available on the product itself.

Specific target organ systemic

toxicity(single exposure): No data available.

Specific target organ systemic

toxicity(repeated exposure): No data available on the product itself.

Aspiration hazard: No data available.



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12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: Not applicable

Toxicity to other organisms: No data available on the product itself.

Persistence and degradability: No data available on the product itself.

Bio accumulative potential: No data available on the product itself.

Mobility in soil: No data available on the product itself.

Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Contact Gas Link Direct if guidance is required.

Return unused product in original cylinder to supplier.

Contaminated packaging: Return cylinder to supplier.

14. TRANSPORT INFORMATION

ADR

UN ID No.: UN1066

Proper Shipping Name . Nitrogen, Compressed

Class/ Division: 2
Tunnel code: (E)
Hazard Identification No.: 20
Label(s): 2.2

IATA

UN ID No.: UN1066

Proper Shipping Name . Nitrogen, Compressed

Class/ Division: 2.2 Label(s): 2.2

IMDG

UN ID No.: UN1066

Proper Shipping Name . Nitrogen, Compressed

Class/ Division: 2.2 Label(s): 2.2

RID

UN ID No.: UN1066

Proper Shipping Name . Nitrogen, Compressed Carbon Dioxide

Class/ Division: 2.2 Label(s): 2.2

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 emergency.



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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture,

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	EINECS	Included on Inventory

WGK Identification Number: Not water endangering.

Chemical Safety Assessment

This product does not meet the minimum volume threshold. CSA is not required.

16. OTHER INFORMATION

Ensure all national/ local regulations are observed.

Hazard statements: H280 Contains gas under pressure; may explode if heated.

Cylinder Identification: Gas Link Direct / GLD / Gas Link Wales / Gas Link Group.

DISCLAIMER

Details given in this document are believed 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.

For more information contact Gas Link Direct on 07789 996928