

SAFETY
DATA
SHEET

Nitrogen (Oxygen Free)

1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY

Product name	Nitrogen (Oxygen Free)
Chemical formula	N ₂
Company identification	* Supplier of your choice
Emergency phone Nos	Please, inform about

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/ Preparation	Substance
Components/ Impurities	Contains no other components or impurities which will influence the classification of the product.
CAS Nr	7727-37-9
EEC Nr (from EINECS)	231-783-9
Specification	
Nitrogen (Oxygen Free)	99.998% minimum (Specification includes argon) Conforms to BS4366

3 HAZARDS IDENTIFICATION

Hazards identification	Compressed gas. In high concentrations may cause asphyxiation.
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4 FIRST AID MEASURES

Inhalation	In high concentrations may cause asphyxiation and death. 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.
Ingestion	Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES

Specific hazards	Exposure to fire may cause containers to rupture/explode. Inform Fire Brigade. Non flammable.
Hazardous combustion products	None.
Suitable extinguishing media	All known extinguishants can be used.
Specific methods	If possible, stop flow of product. Move away from container and cool with water from a protected position.
Special protective equipment for fire fighters	In confined space use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Post warning notices.
Environmental precautions	Try to stop release if safe to do so.
Clean up methods	Ventilate area.

7 HANDLING AND STORAGE

Handling and storage	Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact * if in doubt. Refer to * container handling instructions. Keep container below 50°C in a well ventilated place.
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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection	Ensure adequate ventilation.
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9 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight	28
Melting point	-210°C
Boiling point	-196°C
Critical temperature	-147°C
Relative density, gas	0.97 (air= 1)
Relative density, liquid	Not applicable
Vapour Pressure 20°C	Not applicable
Solubility mg/l water	20 mg/l
Appearance/Colour	Colourless gas
Odour	No odour warning properties

10 STABILITY AND REACTIVITY

Stability and reactivity	Stable under normal conditions.
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11 TOXICOLOGICAL INFORMATION

General	No known toxicological effects from this product.
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12 ECOLOGICAL INFORMATION

General	No ecological damage caused by this product
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13 DISPOSAL CONSIDERATIONS

General	Do not discharge into any place where its accumulation could be dangerous. To atmosphere in a well ventilated place. Contact * if guidance is required.
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14 TRANSPORT INFORMATION

Proper Shipping Name	Nitrogen, Compressed
UN Nr	1066
Class/Div	2.2
ADR/RID Classification Code	1A
ADR/RID Hazard Nr	20
Labelling ADR	Label 2.2: non flammable non toxic gas.
Other transport information	<p>Avoid transport on vehicles where the load space is not separated from the driver's compartment.</p> <p>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.</p> <p>Before transporting product containers ensure that they are firmly secured and:</p> <ul style="list-style-type: none"> - cylinder valve is closed and not leaking. - valve outlet cap nut or plug (where provided) is correctly fitted. - valve protection device (where provided) is correctly fitted - adequate ventilation. - compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548	Not included in Annex I.
EC Classification	Not classified as dangerous substance.
Labelling of cylinders	
- Symbols	Label 2.2: non flammable non toxic gas.

16 OTHER INFORMATION

Ensure all national/local regulations are observed.

Asphyxiant in high concentrations.

Keep container in well ventilated place.

Do not breathe the gas.

The hazard of asphyxiation is often overlooked and must be stressed during operator training. Users of breathing apparatus must be trained.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Do not use any other gas as a substitute for nitrogen.

Always leak check cylinders when first collected, delivered or used, using an approved leak detection fluid.

Details given in this document are believed to be 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 further safety information please refer to "Safety Under Pressure" and "Guidance for carriage of gas cylinders on vehicles", both of which are available from your local * outlet.