



SAFETY DATA SHEET

Oxygen Free Nitrogen

1. Product and Company Identification

Product Name: Oxygen Free Nitrogen

Distributor: National Refrigerants Ltd
4 Watling Close
Sketchley Meadows Business Park
Hinckley
Leicestershire
LE10 3EZ
Tel: +44(0)1455 630790
Fax: +44(0)1455 630791
Email: info@nationalref.com

Emergency Telephone Numbers: IN AN EMERGENCY DIAL 999 (UK Only)
For specialist advice in an emergency telephone
(+44) (0) 1455 630790

2. Composition/Information on Ingredients

Substance/Preparation: Substance
Components/Impurities: Contains no other Impurities which will influence the classification of the product. Product is 99.998% pure.
CAS Number: 07727-37-9
EEC Number: 2317839 (From EINECS)

3. Hazard Identification

Compressed Gas.
In high concentrations may cause asphyxiation.

4. First Aid Measures

Inhalation: In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Immediately remove to fresh air. If breathing has stopped, give artificial respiration. Use oxygen as required, provided a qualified operator is available. Get medical attention.

5. Fire Fighting Measures

Extinguishing Media: All extinguishing agents are suitable. Use any standard agent – choose the most appropriate for type of surrounding fire (the material itself is not flammable).

Specific Hazard: Pressurised container. On heating there is a risk of bursting due to internal pressure build-up.

Specific fire fighting methods: Move containers away from fire or cool down the containers/equipment exposed to heat with water spray.

Protection of the fire fighters: Wear a self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Evacuate the area. Ensure adequate air ventilation. Wear self contained breathing apparatus when entering area unless atmosphere is proven to be safe.

Environmental Precautions: Try to stop release. Slightly lighter than air. Prevent from discharging in any place where its accumulation can be dangerous.

Clean Up Method: Ventilate the area.

7. Handling and Storage

Handling: Only trained persons should handle compressed gases. Use only properly specified equipment which is suitable for this product, its pressure and temperature. Open the cylinder valve slowly to avoid pressure shock. Do not allow back feed to cylinder. Suck back of water into the cylinder must be prevented.

Storage: Store below 50°C in a well-ventilated area of low fire risk and out of sunlight. Protect cylinders and fittings from physical damage. Close valve tightly after use and when empty.

8. Exposure Controls & Personal Protection

Ensure adequate ventilation.

9. Physical and Chemical Properties

Appearance:	Colourless Gas
Physical State:	Gas at ambient pressure and temperature.
Odour:	Odourless
Chemical Formula:	N ₂
Molecular Weight:	28
Melting Point:	-210°C
Boiling Point:	-195.8°C
Critical Temperature:	-146.85°C
Relative Density (Gas):	0.967 (Air=1)
Solubility (water)	23mg/l

10. Stability and Reactivity

Stability: Stable at ambient temperature and under normal conditions of use.

11. Toxicological Information

No known toxicological effects from this product.

Ecological Information

No known ecological effects from this product.

12. Disposal Considerations

Vent to atmosphere in well ventilated place. Do not discharge into any place where its accumulation could be dangerous.

13. Transport Information

Road Transport (ADR)

UN No.	1066
Class:	2
Classification Code:	2A
Hazard Identification No.	20

14. Regulatory Information

EC Classification: Not classified as a dangerous substance.

Risk Phrases:

RAs: Asphyxiant in high concentrations.

Safety Phrases:

S9: keep container in a well ventilated place.

S23: Do not breathe gas.

United Kingdom: Handle in accordance with relevant British Legislation e.g. Health and Safety at Work Act 1974, Environment Protection Act 1990.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions, which complete these regulations. Refer to all applicable National, International and Local regulations or provisions.

15. Other Information

Valve Connection: BS 341 No. 3

Ensure all users of this product understand the hazards of asphyxiation.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

National Refrigerants Ltd. believes that the information and recommendations contained herein



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