

**NITRONOX (50% NITROUS OXIDE / 50% MEDICAL OXYGEN)
COMPRESSED FOR MEDICAL USE**

Data Sheet No 2: Issue 1

Replaces Issue N/A

This data sheet has been prepared in accordance with the requirements of Article 31 of EU Regulation 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION & SUPPLIER

PRODUCT: NITRONOX (50% NITROUS OXIDE 50% OXYGEN) COMPRESSED

Including products marketed as: NITRONOX

RECOMMENDED USES:

Nitronox is a product intended to be used for medical use;

Nitronox is not supplied for domestic consumer use.

COMPANY: SPECIALITY OXYGEN SERVICE LTD

ADDRESS: Conway Industrial Estate
Appley Bridge
Lancashire
WN6 9DW

TELEPHONE: 01257 254 525

2: HAZARD IDENTIFICATION

- Oxidant.
- Strongly supports combustion.
- May react violently with combustible materials.
- Compressed gas.

3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Preparation: Preparation

Components:

Substance Name:	Contents:	EC No.	CAS No.	Classification
Nitrous Oxide	Between 45% and 55%	233-032-0	10024-97-2	O;R8

4: FIRST AID MEASURES

Ingestion: Not considered a potential route of exposure.

5: FIRE-FIGHTING MEASURES

Flammable class: Non-flammable.

Specific hazards: Supports combustion.
Exposure to fire may cause containers to rupture/explode

Hazardous combustion products: Under fire conditions, hazardous fumes will be present

Extinguishing media:
– **Suitable extinguishing media** All known extinguishants can be used

Specific methods: If possible stop flow of product. Move away from the container and cool with water from a protected position.

Special protective equipment for fire fighters: Do not enter fire area without proper protective equipment, including respiratory protection.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate area.
Ensure adequate air ventilation.
Eliminate sources of ignition.

Environmental precautions: Try to stop the release.
Prevent from entering from entering any place where its accumulation could be dangerous.

Clean up methods: Ventilate area

7: HANDLING AND STORAGE

Storage:	Segregate from flammable gases and other flammable materials in store Keep containers below 50°C in a well-ventilated place.
Handling:	Open valve slowly to avoid pressure shock. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. If in doubt contact Speciality Oxygen Service.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection:	Do not smoke while handling product. Ensure adequate ventilation. Gloves/hands must be clean and free of oil/grease.
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9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20°C:	Gas.
Colour:	Colourless.
Odour:	Sweet
Relative density, gas (air = 1)	Heavier than air.
Solubility in water (mg/l)	No reliable data available.
Other data	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10: STABILITY AND REACTIVITY

Stability and reactivity	May react violently with combustible materials. May react violently with reducing agents. Violently oxidise organic material.
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11: TOXICOLOGICAL INFORMATION

Toxicity information:	No data available.
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12. ECOLOGICAL INFORMATION

Ecological effects information	No known ecological damage caused by this product.
Environmental precautions	Prevent from entering from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
Effect on Ozone layer	None

13: DISPOSAL CONSIDERATIONS

General:	Do not discharge into any place where its accumulation could be dangerous. If required contact Speciality Oxygen Service for guidance.
Disposal method:	Contact Speciality Oxygen Service for specific recommendations.

14: TRANSPORT INFORMATION

UN Number:	3156
Hazard Identification No.:	25
Packing Group:	N/A
ADR/RID Proper Shipping Name:	COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Nitrous Oxide)
Substance Identification No.:	3156
Class:	2
Classification Code:	1 O
Labels:	2.2 :Non-flammable, non-toxic gas and 5.1 :Oxidizing substances

Other transport information:	Avoid transport in 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 cylinders ensure : <ul style="list-style-type: none">- That the cylinders are firmly secured.- The cylinder valve is closed and not leaking.- There is adequate ventilation.- Compliance with applicable regulations.
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15. REGULATORY INFORMATION

EC Classification:	O; R8
EC Labelling: Symbol(s)	O: Oxidizing.
R Phrase(s):	R8: Contact with combustible material may cause fire.
S Phrase(s):	S17: Keep away from combustible material.

16: OTHER INFORMATION

Training Advice:	Cylinder under pressure. Ensure all national/local regulations are observed.
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