



SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING	
<p>1.1 Product Identifier: Product name: 8.5g N20 Chargers Chemical Formula: Nitrous Oxide (N2O) CAS: 10024-97-2 / EC: 233-032-0 Index Number: N/A</p> <p>1.2 Details of Supplier Eurovap Products Limited 6B Enterprise Drive Henderson, AUCKLAND 0612 Tel.: +64 9 837 8294</p> <p>1.3 Emergency Telephone Number Emergency Services (Fire, Ambulance, Police) – Dial 111 National Poisons Information Centre – Dial 0800 764 766 (0800 POISON)</p>	<p>Symbol</p>  <p>GHS03</p>  <p>GHS04</p>

2: HAZARDS IDENTIFICATION
<p>Oxygen levels below 19.5% may cause asphyxia. Nitrogen oxide exposure can cause nausea and respiratory problems. High concentrations may cause vasodilation leading to circulatory collapse. Warning! Pressurized container; protect from sunlight; do not expose to temperatures exceeding 50°C (122°F); keep out the reach of children; never dispose of full container, never force open.</p>

3: COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical Name Components	CAS Number	Hazardous Material Composition (Percentage)
Nitrous Oxide	10024-97-2	28%
Carbon Steel	363179-62-8	72%

4: FIRST AID MEASURES	
4.1.1 Inhalation:	Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.
4.1.2 Ingestion:	Not expected under normal conditions due to gaseous state.
4.1.3 Skin Contact:	Wash affected area with soap and water; if irritation persists, seek medical attention.
4.1.4 Eye Contact:	Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

5: FIRE-FIGHTING MEASURES
5.1 Specific Hazards: Exposure to fire may cause containers to rupture/explode.
5.2 General Hazards: Product is not flammable or combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.
5.3 Extinguishing Media: Carbon dioxide, water, water fog, dry chemical, chemical foam.
5.4 Unusual Fire and Explosion Hazards: Closed containers can explode due to buildup of pressure when exposed to extreme heat. Contents under pressure. Do not use or store near heat sources.
5.5 Hazardous Combustion Products: Smoke, fumes or vapors, oxides of carbon.

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6: ACCIDENTAL RELEASE MEASURES
<p>6.1 Personal precautions: Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.</p> <p>6.2 Environmental precautions: Try to stop release. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous.</p> <p>6.3 Clean up methods: Ventilated area.</p>

7: HANDLING AND STORAGE
<p>Handling: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, keep away from sources of heat. Do not puncture container. Do not attempt to refill container. Keep away from direct sunlight and heat.</p> <p>Storage: Do not heat. Maximum environmental temperature in use not to exceed 50°C (122°F). Store in a cool and dry location.</p> <p>Packaging Materials: Recyclable steel</p> <p>Recommended Use: Use original container.</p>

8: EXPOSURE CONTROL/PERSONAL PROTECTION
<p>Engineering controls: The use of local exhaust ventilation is required to control emissions near the source. Provide mechanical ventilation of confined spaces.</p> <p>Personal protection: Ensure adequate ventilation. Carry working gloves and protection</p>

9: PHYSICAL AND CHEMICAL PROPERTIES		
Physical and chemical properties of N2O (E942--99% N2O).		
Gas density at 1 atm:	58.5 kg/cm ² at 20°C	
Relative density (air=1):	1.53 at 20°C	
Melting point (N2O Sublimes):	- 90.86° C (- 132° F)	
Boiling point:	- 88.48° C (- 127° F)	
Solubility (H2O):	1.50 g/L at 15 °C, 100 kPa	
Odor and appearance:	A colourless, odorless gas	
Gas purity:	>99%	
Parameter of 8g N2 O charger	METRIC UNITS	US / IMPERIAL UNITS
Overall Length (approx.):	65.5 mm	2.579 in
Body Diameter:	18.3 mm	0.732 in
Neck Diameter:	8.7 mm	0.343 in
Internal Volume (approx.):	11.4 ml min.	0.695 in ³ min.
Net weight of N2 O (approx.):	8.5 g	0.300oz
Tare wt. of charger (approx.):	22g	0.776oz
Gross wt. of charger (approx.):	30.5 g	1.079 oz
Bursting pressure:	>500 bar	>7250 lbf/in ²
A capsule contains not more than 0.75 g of this gas per cm3 of capacity. At filling density Pressure / Temperature Characteristics:	52 bar at 20°C	750 lbf/in ² at 68 °F
	175 bar at 50°C	2540 lbf/in ² at 122 °F
	255 bar at 70°C	3700 lbf/in ² at 158 °F
	365 bar at 100°C	5300 lbf/in ² at 212 °F
	400 bar at 110°C	5800 lbf/in ² at 230 °F

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10: STABILITY AND RELIABILITY	
Stability:	The product is stable.
Materials to avoid:	Organic, combustible material
Hazardous Decomposition Products:	Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

11: TOXICOLOGICAL INFORMATION	
General:	No known toxicological effects from this product.
Acute toxicity:	N2O can cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.

12: ECOLOGICAL INFORMATION	
No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.	

13: DISPOSAL CONSIDERATIONS	
Waste Disposal Method: Never dump at sea. Inform waste disposal contractor of material to be disposed of (zinc-plated and chrome stabilised steel. Never dispose of a filled cylinder.)	

14: TRANSPORT INFORMATION	
Non-Hazardous	
Class	2.2
UN No.	UN 2037
Title	Receptacles, small, containing gas (gas cartridges) Receptacles with capacity not exceeding 50 ml containing only non-toxic constituents, are not subject to provisions of IMDGC - IATA DGR A98 (Special provision), (Not restricted)

15: REGULATORY INFORMATION	
EU Regulations:	Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.
Hazard symbol(s):	
Classification:	Harmful
Risk Phrases:	R20- Harmful by inhalation.
Safety Phrases:	S38- In case of insufficient ventilation, wear suitable respiratory equipment.
Contains:	N2O

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16: OTHER INFORMATION

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on Information from similar products, the ingredients, technical literature, and/or professional experience.

Company	Eurovap Products Limited
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Phone	09 837 8294

Current Version: 1a

Revision Information:

31-10-2025 Overseas supplier SDS Creation date 31-10-2025, Revised Date 13-01-2025.

13-01-2025 **Revision 1** Creation of SDS to NZ Requirements

07-02-2025 **Revision 1a** Updated Emergency Contact Information.

Disclaimer:

This safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal use of the product described herein. Health and safety precautions in the data sheet may not be adequate for all individuals and/or situations. Users have the responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations.

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