# **Safety Data Sheet**

#### **Section 1. Identification**

Field	Details
Product Identification	Nitrous Oxide Cartridges, 16g
Product Description	Nitrous Oxide (N₂O) gas, liquefied in a
	sealed cartridge
Recommended Use	For cryosurgical application devices
Supplier	Delasco, 4001 E Plano Pkwy, Ste 100,
	Plano, TX 75074
Phone	1-712-323-3269
Fax	1-712-323-1156
Website	www.delasco.com
Email	questions@delasco.com
Emergency Contact	Chemtrec (24 hour) 1-800-424-9300

# Section 2. Hazard(s) Identification

Hazard Element	Details
Classification	Pressurized gas (liquefied), Oxidizing gas
	(Category 1)
Signal Word	Danger
Hazard Statements	H270: May cause or intensify fire; oxidizer
	H280: Contains gas under pressure; may
	explode if heated
Precautionary Statements	P244, P220, P410+P403, P370+P376
Label Symbols	None

# Section 3. Composition/Information on Ingredients (with Table)

Chemical	CAS Number	Concentration	Other	Hazardous
Name			Names/Synonyms	Components
Nitrous Oxide	10024-97-2	>99%	N₂O	None

# **Section 4. First-aid Measures (with Table)**

Route of Exposure	First Aid Measures
Inhalation	Remove to fresh air. Administer artificial
	respiration or oxygen if needed. Seek
	medical attention.
Skin Contact	Flush affected area with warm water.
	Remove contaminated clothing. Seek
	medical attention.

Page 1 of 4



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Eye Contact	Flush eyes with warm water for at least
	15 minutes. Seek immediate medical
	attention.
Ingestion	Unlikely route. May cause frostbite to
	lips/mouth. Do not induce vomiting. Get
	medical attention.

# **Section 5. Fire Fighting Measures (with Table)**

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Parameter	Details
Extinguishing Media	Use media suitable for surrounding fire.
	N₂O itself is not flammable.
Hazards	Oxidizer. May intensify fire. Gas under
	pressure may explode if heated.
Protective Equipment	SCBA and full protective gear
	recommended.
NFPA Ratings	Health – 2, Flammability – 0, Instability –
	1, Special – OX

# Section 6. Accidental Release Measures (with Table)

Action Area	Recommended Procedures
Personal Precautions	Evacuate area. Use SCBA if needed. Avoid
	flammables.
Environmental Precautions	Prevent buildup in confined spaces.
Cleanup Methods	Ventilate area. Use water spray to reduce
	vapors. Stop leak if safe.

#### Section 7. Handling and Storage

Aspect	Details
Handling	Do not handle with oily/greasy
	gloves/tools. Use clean oxygen-rated
	equipment.
Storage	Store upright in a well-ventilated place
	away from flammables. Max temp: 50°C
	(122°F).
Incompatibilities	Oils, grease, hydrocarbons, alkali metals,
	powdered aluminum, acids, aldehydes.

# Section 8. Exposure Controls and Personal Protection (with Table)

Agency	Limit Type	Exposure Limit
ACGIH	TLV (TWA)	50 ppm
OSHA	PEL	Not established

Page **2** of **4** 



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NIOSH	REL (TWA)	50 ppm
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# Section 9. Physical and Chemical Properties (with Table)

Property	Value
Appearance	Colorless gas
Odor	Slightly sweet
Boiling Point	-88.5°C (-127.4°F)
Melting Point	-90.8°C (-131.5°F)
Vapor Pressure (at 21.1°C)	735 psig (5070 kPa)
Density	1.947 kg/m³
Solubility in Water	0.68 vol/vol at 20°C
Molecular Weight	44.01 g/mol

# **Section 10. Stability and Reactivity**

Parameter	Details
Chemical Stability	Stable under recommended storage and
	handling conditions.
Hazardous Reactions	May decompose explosively at high
	temperatures.
Incompatible Materials	Oils, grease, hydrocarbons, alkali metals,
	acids, aldehydes.
Decomposition Products	Nitrogen and oxygen gases.
Conditions to Avoid	Heat, sparks, flames, and contamination
	with incompatible materials.

# **Section 11. Toxicological Information**

Exposure Type	Health Effects
Inhalation	May cause asphyxiation at high
	concentrations. Prolonged exposure may
	lead to B12 deficiency.
Skin Contact	Contact with liquid can cause frostbite.
Eye Contact	Exposure to liquid may cause severe
	irritation or frostbite.
Chronic Effects	Prolonged exposure may cause
	megaloblastic anemia, reproductive
	toxicity.
Carcinogenicity	Not classified as a carcinogen by NTP,
	IARC, ACGIH, or OSHA.

# **Section 12. Ecological Information**

Page **3** of **4** 



Ecological Parameter	Details
Ecotoxicity	Not expected to be hazardous to the
	environment.
Ozone Depletion	Does not contain Class I or II ozone-
	depleting substances.
Marine Pollutant	Not listed as a marine pollutant.
Other Adverse Effects	None known.

# **Section 13. Disposal Considerations**

Disposal Parameter	Details
Recommended Disposal Method	Return unused cartridges to supplier.
Waste Handling	Do not release into environment. Handle
	in accordance with applicable laws.
Regulatory Compliance	Dispose of in accordance with federal,
	state, and local regulations.

# **Section 14. Transport Information**

Parameter	Details
US DOT UN Number	UN2037
Proper Shipping Name	Receptacles, small, containing gas (Gas
	cartridges) without release device
Hazard Class	2.2 (Non-flammable, non-toxic gas)
Packing Group	N/A
Special Provisions	Not restricted under SP 191, IATA A98

# **Section 15. Regulatory Information**

Regulation	Applicability
Seveso Directive (96/82/EC)	Not applicable
REACH Registration	Exempt (Annex IV/V)
Local/National Regulations	All applicable regulations must be
	followed

#### **Section 16. Other Information**

Parameter	Details
Date of Issue	08/06/2025



Page 4 of 4

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