

Safety Data SheetFOOD/BEVERAGE NITROUS OXIDE - 99% PURITY

Central McGowan 123 Roosevelt Road, St. Cloud, MN, 56301 800-569-1322

Section 1: Product and Company Identification

Central McGowan

123 Roosevelt Road, St. Cloud, MN, 56301

Product Code: FOOD/BEVERAGE NITROUS OXIDE - 99% PURITY

Synonyms: NOX H N2O F.G.

Recommended Use: Usage Restrictions:

Section 2: Hazards Identification



Hazard Classification: Oxidizing Gas (Category 1)

Gases Under Pressure

Hazard Statements: May cause or intensify fire; oxidizer

Contains gas under pressure; may explode if heated

Precautionary Statements

Prevention: Keep and store away from clothing and combustible materials.

Keep reduction valves/valves and fittings free from oil and grease.

Response: In case of fire: Stop leak if safe to do so.

Storage: Protect from sunlight.

Store in well-ventilated place.

Section 3: Composition/Information on Ingredients

CAS#
10024-97-2

Chemical Substance	Chemical Family	Trade Names
NITROUS OXIDE	Inorganic gases	DINITROGEN MONOXIDE; FACTITIOUS AIR; LAUGHING GAS; HYPONITROUS ACID ANHYDRIDE; NITROGEN (I) OXIDE; NITROGEN OXIDE; STCC 4904340; UN 1070; NITROGEN OXIDE (N2O); DINITROGEN OXIDE; NITROUS OXIDE, COMPRESSED; N2O

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Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Non-flammable. use suitable extinguishing media for surrounding fire.	Non-flammable	Non-flammable

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Avoid contact with combustible materials.	No adverse effects expected.	Stop leak if possible without personal risk.

Methods for Cleanup	Other Information
Stop leak, evacuate and ventilate area.	None

Section 7: Handling and Storage

Handling	Storage
Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR	Keep separated from incompatible substances.
1910.105.	

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

NITROUS OXIDE: 50 ppm ACGIH TWA 25 ppm (46 mg/m3) NIOSH recommended TWA (halogenated anesthetic gas)

Engineering Controls

Handle only in fully enclosed systems

Eye Protection	Skin Protection	Respiratory Protection
For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing. Wear insulated gloves.	Non-flammable

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

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Section 9: Physical and Chemical Properties

Appearance

Color

,			Appearance		
Gas	Clear	Colorless	N/A	Gas	Sweet odor
Taste	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits
Sweet taste	Not flammable	Not available	Not available	Nonflammable	Nonflammable
Lower Explosive Limits	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity
Nonflammable	-128 F (-89 C)	-132 F (-91 C)	760 mmHg @ -88 C	1.53 (Air=1)	Not applicable
	T			T	1
Water Solubility	pН	Odor Threshold	Evaporation Rate	Viscosity	Molecular Weight
59% @ 25 C	Not applicable	Not available	Not applicable	0.0145 cP @ 25 C	44.01

Change in

Physical Form

Odor

Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
N2-O	1.8122 g/L @ 25 C	Not available	Not applicable	Not applicable	Soluble : Sulfuric acid, alcohol, alkali solutions, ether, oils

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure. Decomposes to nitrogen and oxygen at high temperatures	Avoid contact with combustible materials. Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.	Combustible materials, metals, bases, reducing agents, peroxides, metal salts, metal oxides, hydrogen

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Oxides of nitrogen	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

Physical State

Oral LD50	Dermal LD50	Inhalation
Not available	Not available	Nausea, vomiting, symptoms of drunkenness, hyperactivity or drowsiness, hearing loss, suffocation, death

Eye Irritation	Skin Irritation	Sensitization
Liquid: frostbite, blurred vision	Liquid: blisters, frostbite	Potentially fatal if inhaled, central nervous system depression, difficulty breathing TERATOGEN/EMBRYOTOXIN - can harm the unborn child, based on human information.

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
IARC: Human Inadequate Evidence, Animal Inadequate Evidence, Group 3 (Anesthetics, volatile); ACGIH: A4 -Not Classifiable as a Human Carcinogen	Available.	Available.	No data

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Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: Not available	Not available	Not available	Not available
Invertibrate toxicity: Not available			
Algal toxicity: Not available			
Phyto toxicity: Not available			
Other toxicity: Not available			

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Nitrous oxide	UN1070	2.2	Not applicable	2.2; 5.1	N/A	N/A	N/A

Canadian Transportation of Dangerous Goods

Shipping Name	UN Number	Class	Packing Group / Risk Group
Nitrous oxide	UN1070	2.2; 5.1	Not applicable

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not regulated.	Not regulated.	Not regulated.

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	No	No	Yes

SARA 372.65

Not regulated.

OSHA Process Safety

Not regulated.

State Regulations

CA Proposition 65

WARNING: This product can expose you to chemicals including Nitrous Oxide which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Canadian Regulations

WHMIS Classific	fication	
A,C		

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National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Listed on inventory.	Not listed.	Not determined.

Section 16: Other Information

NFPA Rating	
HEALTH=3 FIRE=0 REACTIVITY=0 SPECIAL=OX	

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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