

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 28/06/2018 Date of issue: 21/12/2010 Supersedes: 28/09/2016 Version: 4.0 NLM-1045

SECTION 1: Identification of the substant	tance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	NITROUS OXIDE (1-15N, 98%+)		
EC-No.	: 233-032-0 (Unlabeled)		
CAS-No.	: 20509-24-4		
Product code :	: NLM-1045		
Formula	: N*NO		
Synonyms	: Laughing gas / Dinitrogen monoxide		
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against		
1.2.1. Relevant identified uses			
Main use category	Professional use		
Industrial/Professional use spec	: For professional use only		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety da	ata sheet		
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA			
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com			
Emergency telephone number			
Emergency numbers:			
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)			
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixture			
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Ox. Gas 1 H270			
Press. Gas (Comp.) H280			
Full text of hazard classes and H-statements : see section 16			
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] R5 O; R8 Full text of R-phrases: see section 16			

GHS-US classification

Ox. Gas 1 H270 Press. Gas (Comp.) H280 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Blood, Lungs.

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2.2. Label elements	
Labeling according to Regulation (EC) M Hazard pictograms (CLP)	No. 1272/2008 [CLP]
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H270 - May cause or intensify fire; oxidizer H280 - Contains gas under pressure; may explode if heated
Precautionary statements (CLP)	 P220 - Keep/Store away from clothing, combustible materials, combustibles P244 - Keep valves and fittings free from oil and grease. P370+P376 - In case of fire: Stop leak if safe to do so. P403 - Store in a well-ventilated place. P410+P403 - Protect from sunlight. Store in a well-ventilated place.
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS04 GHS03 : Danger
Hazard statements (GHS-US)	 H270 - May cause or intensify fire; oxidizer H280 - Contains gas under pressure; may explode if heated
Precautionary statements (GHS-US)	 P220 - Keep/Store away from clothing, combustible materials, combustibles P244 - Keep reduction valves/valves and fittings free from oil and grease P370+P376 - In case of fire: Stop leak if safe to do so P403 - Store in a well-ventilated place. P410+P403 - Protect from sunlight. Store in a well-ventilated place.
2.3. Other hazards	

No additional information available

SECTION 3: Composition/Information on ingredients 3.1. Substances			
			Name
NITROUS OXIDE (1-15N, 98%+)	(CAS-No.) 20509-24-4 (EC-No.) 233-032-0 (Unlabeled)	100	R5 O; R8
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
NITROUS OXIDE (1-15N, 98%+)	(CAS-No.) 20509-24-4 (EC-No.) 233-032-0 (Unlabeled)	100	Ox. Gas 1, H270 Press. Gas (Comp.), H280

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
NITROUS OXIDE (1-15N, 98%+) (Main constituent)	(CAS-No.) 20509-24-4	100	Ox. Gas 1, H270 Press. Gas (Comp.), H280

Full text of H-phrases: see section 16

Mixtures 3.2.

Not applicable

SECTION 4: First aid measures

4.1. **Description of first aid measures**

First-aid measures general

: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

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First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medi No additional information available	cal attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation. Ensure adequate air ventilation. Evacuate unnecessary personnel. Evacuate danger area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Do	o not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for contain	ment and cleaning up
For containment	: Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak, if possible without risk. Vacuum with an equipment that avoids ignition risk. Consult an expert on waste disposal or treatment.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking.
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inclu	
Technical measures	: Store in a well-ventilated place. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage.
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	EN (English LIC)
28/06/2018	EN (English US) 3/8

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SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
NITROUS OXIDE (1-15N, 98%	6+) (20509-24-4)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.0000000 ppm USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH Remark (ACGIH) Central Nervous System impairment. Hematologic effects. Embryo/fetal damage. Not classifiable as a human carcinogen.			
USA NIOSH	NIOSH REL (TWA) (mg/m³)	46 mg/m ³ USA. NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm USA. NIOSH Recommended Exposure Limits	
USA NIOSH Remark (NIOSH) REL for exposure to waste anesthetic gas TWA over the time exposed			
USA OSHA OSHA PEL (Ceiling) (mg/m ³) 90 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)			
USA OSHA	OSHA PEL (Ceiling) (ppm)	50 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)	

8.2. **Exposure controls**

Appropriate engineering controls

Personal protective equipment

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Gas
Appearance	: Liquified gas
Molecular mass	: 45.01 g/mol (Labeled)
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -91 °C (-132 °F) - lit
Freezing point	: No data available
Boiling point	: -88 °C (-126 °F) - lit
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 68.9 hPa (51.7 mmHg) at 21 °C (70 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
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Explosive properties	: No data available
Oxidizing properties	: The substance or mixture is classified as oxidizing wih the Category 1. Oxidizing liquids Category 2.
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials No additional information available	
10.6. Hazardous decomposition products	S
Nitrogen oxides.	
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	
	: Not classified
Serious eye damage/irritation	: Not classified : Not classified
Serious eye damage/irritation Respiratory or skin sensitization	
Respiratory or skin sensitization Germ cell mutagenicity	Not classifiedNot availableNot classified
Respiratory or skin sensitization	: Not classified : Not available
Respiratory or skin sensitization Germ cell mutagenicity	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification.
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Not classified
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Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Not classified Not classified Not classified This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Not classified Not classified Not classified Not classified This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms IARC group Other information Symptoms/effects after inhalation	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Not classified Not classified Not classified This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. 3 Simple Asphyxiant. May be harmful if inhaled. May cause respiratory irritation.
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms IARC group Other information Symptoms/effects after inhalation Symptoms/effects after skin contact	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Not classified Not classified Not classified This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. 3 Simple Asphyxiant. May be harmful if inhaled. May cause respiratory irritation.
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms IARC group Other information Symptoms/effects after inhalation	 Not classified Not available Not classified This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Not classified Not classified Not classified This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. 3 Simple Asphyxiant. May be harmful if inhaled. May cause respiratory irritation.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2.	Persistence and degradability		
NITRO	NITROUS OXIDE (1-15N, 98%+) (20509-24-4)		
Persist	Persistence and degradability Not available.		

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12.3. Bioaccumulative potential		
NITROUS OXIDE (1-15N, 98%+) (20509-24-4)		
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
NITROUS OXIDE (1-15N, 98%+) (20509-24-4)	Not available.	
Ecology - soil	Not available.	
12.5. Results of PBT and vPvB assessme	nt	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: Not available.	
SECTION 13: Disposal consideration	IS	
13.1. Waste treatment methods		
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.	
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
Ecology - waste materials	: Dispose of as unused product.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / AI	DN	
14.1. UN number		
UN-No.(DOT)	: 1070	
DOT NA no.	UN1070	
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	: Nitrous oxide	
Class (DOT)	: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115	
Hazard labels (DOT)	: 2.2 - Non-flammable gas 5.1 - Oxidizer	
DOT Special Provisions (49 CFR 172.102)	: A14 - This material is not authorized to be transported as a limited quantity or consumer commodity in accordance with 173.306 of this subchapter when transported aboard an aircraft.	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 304	
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315	
Marine pollutant	: No	
14.3. Additional information		
Other information	: No supplementary information available.	
Overland transport		
Class (ADR)	: 2 - Gases	
Hazard identification number (Kemler No.)	: 25	
Classification code (ADR)	: 20	
Hazard labels (ADR)	: 2.2 - Non-flammable, non-toxic gases 5.1 - Oxidizing substances	

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Orange plates	25	
	1070	
Tunnel restriction code (ADR)	: C/E	
Limited quantities (ADR)	0	
EAC	: 2P	
APP	: A(co)	
Excepted quantities (ADR)	: E0	
Transport by sea		
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"	
MFAG-No	: 122	
Air transport		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg	
Civil Aeronautics Law	: Gases under pressure/Gases nonflammable nontoxic under pressure	
14.4. Environmental hazards		
Other information	: No supplementary information available.	
14.5. Special precautions for user		
	av II of MAPPOL 73/78 and the IBC Code	
Not applicable		
SECTION 15: Regulatory information	1	

SECTION 15: Regulatory information	
15.1. US Federal regulations	
NITROUS OXIDE (1-15N, 98%+) (20509-24-4)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

15.2. International regulations		
CANADA		
NITROUS OXIDE (1-15N, 98%+) (20509-24-4)		
Listed on the Canadian DSL (Domestic Substances List)		

15.2.1. National regulations

No additional information available

15.3. US State regulations	
NITROUS OXIDE (1-15N, 98%+)(20509-24-4)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

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SECTION 16: Other information

Other information

This product is not radioactive. The data given for this product are those of the corresponding : unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

Ox. Gas 1	Oxidizing gases Category 1
Press. Gas (Comp.)	Gases under pressure Compressed gas
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
R5	Heating may cause an explosion
R8	Contact with combustible material may cause fire
0	Oxidizing

NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard :	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
NFPA specific hazard	: OX - Materials that posses oxidizing properties.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 1 Slight Hazard
Physical	: 3 Serious Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product