

Safety Data Sheet 900549 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/04/2017 Supersedes: 03/19/2015 Version: 2.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Carbon Dioxide (0.00001% - 1.9999%) in Nitrogen
Product code	: SG-2002-01667
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
Use of the substance/mixture	: Test gas/Calibration gas
1.3. Details of the supplier of the safe	ty data sheet
Air Liquide USA LLC and its affiliates 9811 Katy Freeway, Suite 100 Houston, TX 77024 - USA T 1-800-819-1704 www.us.airliquide.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300
SECTION 2: Hazard(s) identification	on g
2.1. Classification of the substance of	r mixture
GHS-US classification	
Gases under pressure H280 Compressed gas	
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS04
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated OSHA-H01 - May displace oxygen and cause rapid suffocation
Precautionary statements (GHS-US)	 P202 - Do not handle until all safety precautions have been read and understood P271 - Use only outdoors or in a well-ventilated area P280 - Wear eye protection, face protection, protective gloves, protective clothing P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P308+P313 - If exposed or concerned: Get medical advice/attention P403 - Store in a well-ventilated place P501 - Dispose of contents/container in accordance with local/regional/national/international regulations CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C/125 °F CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG14 - Approach suspected leak area with caution CGA-PG21 - Open valve slowly
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US	
Not applicable	
SECTION 3: Composition/Informat	tion on ingredients

3.1. Substance

Not applicable

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3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Nitrogen	(CAS No) 7727-37-9	98.0001 - 99.99999	Compressed gas, H280
Carbon Dioxide	(CAS No) 124-38-9	0.00001 - 1.9999	Liquefied gas, H280

Full text of H-phrases: see section 16

Full lext of H-phrases, see section to	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Adverse effects not expected from this product.
First-aid measures after eye contact	: Adverse effects not expected from this product.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: May displace oxygen and cause rapid suffocation.
Symptoms/injuries after skin contact	: Adverse effects not expected from this product.
Symptoms/injuries after eye contact	: Adverse effects not expected from this product.
Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.
Symptoms/injuries upon intravenous administration	: Not known.
Chronic symptoms	: Adverse effects not expected from this product.
4.3. Indication of any immediate medical	attention and special treatment needed
If you feel unwell, seek medical advice. If breathi	•
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Special hazards arising from the sul Fire hazard	: The product is not flammable.
	•
Explosion hazard	 Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity	: None known.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Ensure adequate ventilation.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment consistent with the site emergency plan.
Emergency procedures	: Evacuate personnel to a safe area. Close doors and windows of adjacent premises. Keep
	containers closed. Mark the danger area. Seal off low-lying areas. Keep upwind.
6.1.2. For emergency responders	
Protective equipment	: Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.
Emergency procedures	: Evacuate and limit access. Ventilate area.
Try to stop release if without risk.	

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6.3.	.3. Methods and material for containment and cleaning up		
For conta	ainment	:	Try to stop release if without risk.
Methods	for cleaning up	:	Dispose of contents/container in accordance with local/regional/national/international regulations.
6.4.	Reference to other sections		
See also	Sections 8 and 13.		
SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Additiona	al hazards when processed	:	Pressurized container: Do not pierce or burn, even after use. Use only with equipment rated for cylinder pressure. Close valve after each use and when empty.
Precautio	ons for safe handling	:	Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.
Hygiene	measures	:	Do not eat, drink or smoke when using this product.
7.2.	7.2. Conditions for safe storage, including any incompatibilities		
Technica	al measures	:	Comply with applicable regulations.
Storage	conditions	:	Do not expose to temperatures exceeding 52 °C/ 125 °F. Keep container closed when not in use. Protect cylinders from physical damage; do not drag, roll, slide or drop. Store in well ventilated area.
Incompa	tible products	:	None known.
Incompa	tible materials	:	None known.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Carbon Dioxide (124-38-9)			
ACGIH	ACGIH TWA (ppm)	5000 ppm	
ACGIH	ACGIH STEL (ppm)	30000 ppm	
OSHA	OSHA PEL (TWA) (mg/m ³)	9000 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	5000 ppm	
IDLH	US IDLH (ppm)	40000 ppm	
NIOSH	NIOSH REL (TWA) (mg/m ³)	9000 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	5000 ppm	
NIOSH	NIOSH REL (STEL) (mg/m ³)	54000 mg/m³	
NIOSH	NIOSH REL (STEL) (ppm)	30000 ppm	
Nitrogen (7727-37-9)			
Not applicable			

8.2. Exposure controls	
Appropriate engineering controls	Ensure exposure is below occupational exposure limits (where available). Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Oxygen detectors should be used when asphyxiating gases may be released. Consider work permit system e.g. for maintenance activities.
Hand protection	: Wear working gloves when handling gas containers. 29 CFR 1910.138: Hand protection.
Eye protection	: Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing, e.g. lab coats, coveralls or flame resistant clothing.
Respiratory protection	: None necessary during normal and routine operations. See Sections 5 & 6.
Thermal hazard protection	: None necessary during normal and routine operations.
Environmental exposure controls	 Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.
Other information	: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Gas	
Appearance	: Clear, colorless gas.	
Color	: Colorless	
Odor	: Odorless	
Odor threshold	: No Data Available	
рН	: No data available	
Melting point	: No Data Available	
Freezing point	: No data available	
Boiling point	: No Data Available	
Flash point	: No Data Available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: See Section 2.1 and 2.2	
Explosion limits	: Not applicable - not flammable	
Explosive properties	: Not applicable (non-flammable gas).	
Oxidizing properties	: None.	
Vapor pressure	: No data available	
Relative density	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative gas density	: Similar to air	
Solubility	 Water: Solubility in water of component(s) of the mixture : 2000 mg/l Completely soluble. Nitrogen: 20 mg/l 	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity	1	
10.1. Reactivity		
None known.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		

None known.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
11.1. Informatio	11.1. Information on toxicological effects		
Acute toxicity		Not classified	
Carbon Dioxide (124-38-9)			
LC50 inhalation rat	(ppm)	820000 ppm/4h	

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Nitrogen (7727-37-9)		
LC50 inhalation rat (ppm)	820000 ppm/4h	
ATE US (gases)	820000.000 ppmV/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: Not classified	
Specific larger organ loxicity – single exposure		
Specific target organ toxicity – repeated	: Not classified	
exposure		
Aspiration hazard	: Not classified	
Symptoms/injuries after inhalation	: May displace oxygen and cause rapid suffocation.	
Symptoms/injuries after skin contact	: Adverse effects not expected from this product.	
Symptoms/injuries after eye contact	: Adverse effects not expected from this product.	
Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.	
Symptoms/injuries upon intravenous administration	: Not known.	
Chronic symptoms	: Adverse effects not expected from this product.	

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Carbon Dioxide (124-38-9)		
Persistence and degradability	No ecological damage caused by this product.	
Nitrogen (7727-37-9)		
Persistence and degradability	No ecological damage caused by this product.	
12.3. Bioaccumulative potential		
Carbon Dioxide (124-38-9)		
BCF fish 1	(no bioaccumulation)	
Log Pow	0.83	
Bioaccumulative potential	No ecological damage caused by this product.	
Nitrogen (7727-37-9)		
Log Pow	Not applicable for inorganic gases.	
Bioaccumulative potential	No ecological damage caused by this product.	
2.4. Mobility in soil		
Carbon Dioxide (124-38-9)		
Ecology - soil	No ecological damage caused by this product.	
Nitrogen (7727-37-9)		
Ecology - soil	No ecological damage caused by this product.	
2.5. Other adverse effects		
	: No known effects from this product	
	: No known ecological damage caused by this product.	

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SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not exceeded.	
Waste disposal recommendations	 Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more guidance on suitable disposal methods. 	
Ecology - waste materials	: None known.	
SECTION 14: Transport information		
Department of Transportation (DOT) In accordance with DOT		
Transport document description	: UN1956 Compressed gas, n.o.s. (Carbon Dioxide, Nitrogen)	
UN-No.(DOT) Proper Shipping Name (DOT) Hazard labels (DOT)	 : UN1956 : Compressed gas, n.o.s. : 2.2 - Non-flammable gas 	
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols	 302;305 314;315 G - Identifies PSN requiring a technical name 	
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 306;307 : 75 kg	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel	
Other information	: No supplementary information available.	
Transportation of Dangerous Goods No additional information available		
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG)	 1956 COMPRESSED GAS, N.O.S. 2 - Gases 	
Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA)	: 1956 : COMPRESSED GAS, N.O.S. : 2	
SECTION 15: Regulatory information		
15.1. US Federal regulations		
Carbon Dioxide (124-38-9)		

Nitrogen (7727-37-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations CANADA

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Carbon Dioxide (124-38-9) Listed on the Canadian DSL (Domestic Substances List) WHMIS Classification Class A - Compressed Gas Nitrogen (7727-37-9) Listed on the Canadian DSL (Domestic Substances List) WHMIS Classification Class A - Compressed Gas EU-Regulations Carbon Dioxide (124-38-9) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Nitrogen (7727-37-9) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) National regulations Carbon Dioxide (124-38-9) Listed on the ECC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) National regulations Carbon Dioxide (124-38-9) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the CCS (Inventory of Existing Chemical Substances) inventory Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on the Korean ECL (Existing Chemicals and Chemical Substances) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on NSQ (Mexican Natio	cording to Federal Register / Vol. / /, No. 58 / I	Nonday, March 26, 2012 / Rules and Regulations
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Nitrogen (7727-37-9)

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15.3. US State regulations

Carbon Dioxide (124-38-9)
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Nitrogen (7727-37-9)
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information Other information : This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. Full text of H-phrases: H280 Contains gas under pressure; may explode if heated

SDS US (GHS HazCom 2012)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide USA LLC and its affiliates' knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.