

Safety Data Sheet 50241MSA according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/02/2015 Version: 1.0

The Safety Company

SECTION 1: Identification of the	substance/mixture and of th		
	substance/mixture and or tr	e company/undertaking	
1.1. Product identifier	Misture		
Product form	: Mixture) in Nitrogen helenee	
Product name	: Carbon dioxide (0.005 - 50%	, 3	
MSA P/N	: 806735, 807386, 807387, 10		
	substance or mixture and uses adv	ised against	
Use of the substance/mixture	: Test gas/Calibration gas.		
1.3. Details of the supplier of the sa	fety data sheet		
Manufacturer: Calgaz, divison of Air Liquide 821 Chesapeake Drive Cambridge, MD 21613			
U.S. Supplier Mine Safety Appliances Company 100 Cranberry Woods Drive Cranberry Township Pennsylvania U.S.A. 16066			
1-800-MSA-2222 www.msanet.com/prism			
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-93 Internationally: 1-703-527-38		
SECTION 2: Hazards identification			
SECTION 2: Hazards identification 2.1. Classification of the substance			
2.1. Classification of the substance			
2.1. Classification of the substance Classification (GHS-US)			
2.1. Classification of the substance Classification (GHS-US) Compressed gas H280			
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 2.1. Classification of the substance Classification (GHS-US) Compressed gas H280 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) 	 r mixture : GHS04 : Warning : H280 - Contains gas under p CGA-HG03 - May increase r : P202 - Do not handle until a P271 - Use only outdoors or P304+P340 - If inhaled: Ren P313 - Get medical advice/a CGA-PG05 - Use a back floo CGA-PG21 - Open valve slo CGA-PG21 - Open valve slo CGA-PG10 - Use only with e CGA-PG10 - Use only with e CGA-PG10 - Use only with e CGA-PG14 - Approach susp CGA-PG02 - Protect from su 	espiration and heart rate I safety precautions have been read and underst in a well-ventilated area nove person to fresh air and keep comfortable for ttention v preventive device in the piping wly er each use and when empty equipment rated for cylinder pressure ected leak area with caution inlight when ambient temperature exceeds 52°C	r breathing
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2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable 3.2. Mixture

Product identifier	%	Classification (GHS-US)
(CAS No) 7727-37-9	50 - 99.995	Compressed gas, H280
(CAS No) 124-38-9	0.005 - 50	Liquefied gas, H280
	(CAS No) 7727-37-9	(CAS No) 7727-37-9 50 - 99.995

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell.
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	: Not expected to present a significant hazard under anticipated conditions of normal use. See sub-sections below for additional guidance. Symptoms similar to those listed under inhalation.
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.
4.2 Indication of any immediate medical	ettention and energial treatment needed

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

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.
5.2. Special hazards arising from the sub	stance or mixture
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.

N 6: Accidental release measu	Ires
Personal precautions, protective equi	pment and emergency procedures
easures	Ensure adequate ventilation.
For non-emergency personnel	
equipment	Wear protective equipment consistent with the site emergency plan.
	Personal precautions, protective equi easures For non-emergency personnel

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Emerge	ncy procedures	: Escape the danger area by the closest safe route. 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	
Protecti	ve equipment	Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.
Emerge	ncy procedures	Evacuate and limit access. Ventilate area.
6.2.	Environmental precautions	
Try to s	op release if safe to do so.	
6.3.	Methods and material for containmen	t and cleaning up
For con	ainment	: Try to stop release if safe to do so.
Method	s for cleaning up	Dispose of this material and its container in accordance with local regulations.
6.4.	Reference to other sections	
See als	Sections 8 and 13.	
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Additior	al hazards when processed	Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure.
Precaut	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.
Safe ha	ndling of the gas receptacle	Protect cylinders from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.
Safe us	e of the product	The substance must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularily) checked for leaks before use. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.
Hygiene	measures	Do not eat, drink or smoke when using this product.
7.2.	Conditions for safe storage, including	any incompatibilities
Technic	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 cylinder from physical damage. Store in well ventilated area.
Incompa	atible products	None known.
Incompa	atible materials	None known.
Storage	area	: Store away from heat. Store in a well-ventilated place.
7.3.	Specific end use(s)	

Test gas/Calibration gas.

SECTION 8: Exposure controls/personal protection 8.1. **Control parameters** Carbon dioxide (0.005 - 50%) in Nitrogen balance ACGIH Not applicable OSHA Not applicable Carbon dioxide (124-38-9) ACGIH ACGIH TWA (ppm) 5000 ppm ACGIH ACGIH STEL (ppm) 30000 ppm OSHA OSHA PEL (TWA) (mg/m³) 9000 mg/m³ OSHA OSHA PEL (TWA) (ppm) 5000 ppm Nitrogen (7727-37-9) ACGIH Not applicable OSHA Not applicable

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8.2.	Exposure controls	
Approp	priate engineering controls	Ensure exposure is below occupational exposure limits. 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 p	protection	: Wear working gloves when handling gas containers. 29CFR 1910.138: Hand Protection.
Eye pro	otection	: Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.
Skin ar	nd body protection	: Wear suitable protective clothing, e.g lab coats, coveralls or flame resistant clothing.
Respira	atory protection	: None necessary during normal and routine operations. See Sections 5 & 6.
Therma	al hazard protection	: None necessary during normal and routine operations.
Enviror	nmental exposure controls	 Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.
Other i	nformation	: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

SECTION 9: Physical and chemical p	ropenies
9.1. Information on basic physical and c	hemical properties
Physical state	: Gas
Appearance	: Clear, colorless gas.
Molecular mass	: Not applicable for gas-mixtures.
Color	: Colorless
Odor	: Odorless
Odor threshold	: No data available
рН	: Not applicable for gas-mixtures.
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable for gas-mixtures.
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: See Sect. 2.1 & 2.2
Vapor pressure	: Not applicable.
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Relative gas density	: Heavier than air.
Solubility	: Water: Solubility in water of component(s) of the mixture : •: 2000 mg/l •: 20 mg/l
Log Pow	: Not applicable for gas-mixtures.
Log Kow	: Not applicable for gas-mixtures.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable - not flammable.
Oxidizing properties	: None.
Explosive limits	: Not applicable - not flammable
9.2. Other information	
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
None kn	own.
10.2.	Chemical stability
Stable u	nder normal conditions.

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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.

SECT	FION 11: Toxicological information
11.1	Information on toxicological effects

Acute toxicity

: Not classified

Carbon dioxide (124-38-9)		
LC50 inhalation rat (ppm)		820000 ppm/4h
Nitrogen (7727-37-9)		
LC50 inhalation rat (ppm)		820000 ppm/4h
Skin corrosion/irritation	:	Not classified
		pH: Not applicable for gas-mixtures.
Serious eye damage/irritation	:	Not classified
		pH: Not applicable for gas-mixtures.
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 target organ toxicity (repeated exposure)	:	Not classified
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 Ecology - general

: Classification criteria are not met.

12.2. Persistence and degradability Carbon dioxide (0.005 - 50%) in Nitrogen balance Persistence and degradability No data available. Carbon dioxide (124-38-9) Persistence and degradability No ecological damage caused by this product. Nitrogen (7727-37-9) No ecological damage caused by this product. Persistence and degradability **Bioaccumulative potential** 12.3. Carbon dioxide (0.005 - 50%) in Nitrogen balance Log Pow Not applicable for gas-mixtures. 02/02/2015 EN (English US) SDS ID: 50241MSA 5/8

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Carbon dioxide (0.005 - 50%) in Nitrogen held	
Carbon dioxide (0.005 - 50%) in Nitrogen bala Log Kow	Ance Not applicable for gas-mixtures.
Bioaccumulative potential	No data available.
•	
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 (0.005 - 50%) in Nitrogen bala	
Mobility in soil	No data available.
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 advorse offects	
2.5. Other adverse effects ffect on ozone layer	· None
	: None.
ffect on the global warming	: Contains greenhouse gas(es) not covered by 842/2006/EC.
ECTION 13: Disposal consideration	S
3.1. Waste treatment methods	
/aste 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 approxima parmite are not exceeded.
Vaste disposal recommendations	 operating permits are not exceeded. Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more guidance on suitable disposal methods.
SECTION 14: Transport information	
accordance with DOT	
ransport document description	: UN1956 Compressed gas, n.o.s. (Carbon dioxide, nitrogen), 2.2
	. On 1930 Compressed gas, n.o.s. (Carbon dioxide, nitrogen), 2.2
N-No.(DOT)	: UN1956 Compressed gas, n.o.s. (Carbon dioxide, ninogen), 2.2
	: UN1956
Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard	: UN1956 : Compressed gas, n.o.s.
JN-No.(DOT) Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard Classes Hazard labels (DOT)	: UN1956 : Compressed gas, n.o.s. (Carbon dioxide, nitrogen)
Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard Classes	 : UN1956 : Compressed gas, n.o.s. (Carbon dioxide, nitrogen) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard Classes lazard labels (DOT)	 UN1956 Compressed gas, n.o.s. (Carbon dioxide, nitrogen) 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 - Non-flammable gas G - Identifies PSN requiring a technical name
roper Shipping Name (DOT) epartment of Transportation (DOT) Hazard lasses azard labels (DOT) OT Symbols OT Packaging Exceptions (49 CFR 173.xxx)	 : UN1956 : Compressed gas, n.o.s. (Carbon dioxide, nitrogen) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 : 2.2 - Non-flammable gas : G - Identifies PSN requiring a technical name : 306;307
roper Shipping Name (DOT) epartment of Transportation (DOT) Hazard lasses azard labels (DOT) OT Symbols OT Packaging Exceptions (49 CFR 173.xxx)	 UN1956 Compressed gas, n.o.s. (Carbon dioxide, nitrogen) 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 - Non-flammable gas G - Identifies PSN requiring a technical name
roper Shipping Name (DOT) epartment of Transportation (DOT) Hazard lasses azard labels (DOT) OT Symbols OT Packaging Exceptions (49 CFR 173.xxx) OT Packaging Non Bulk (49 CFR 173.xxx)	 : UN1956 : Compressed gas, n.o.s. (Carbon dioxide, nitrogen) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 : 2.2 - Non-flammable gas : G - Identifies PSN requiring a technical name : 306;307
roper Shipping Name (DOT) epartment of Transportation (DOT) Hazard lasses lazard labels (DOT) OT Symbols OT Packaging Exceptions (49 CFR 173.xxx) OT Packaging Non Bulk (49 CFR 173.xxx) OT Packaging Bulk (49 CFR 173.xxx) OT Packaging Bulk (49 CFR 173.xxx)	 UN1956 Compressed gas, n.o.s. (Carbon dioxide, nitrogen) 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 - Non-flammable gas G - Identifies PSN requiring a technical name 306;307 302;305 314;315
Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard Classes	 UN1956 Compressed gas, n.o.s. (Carbon dioxide, nitrogen) 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 - Non-flammable gas G - Identifies PSN requiring a technical name 306;307 302;305 314;315 75 kg

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Additional information		
Other information	: No supplementary information available.	
Special transport precautions	 Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted. 	
ADR		
Transport document description	: UN 1956 COMPRESSED GAS, N.O.S., 2.2	
Class (ADR)	: 2 - Gases	
Hazard labels (ADR)	: 2.2 - Non-flammable compressed gas	
Transport by sea		
UN-No. (IMDG)		
Proper Shipping Name (IMDG) Class (IMDG)	: COMPRESSED GAS, N.O.S. : 2.2 - Non-flammable, non-toxic gases	
Air transport		
UN-No.(IATA)	: 1956	
Proper Shipping Name (IATA)	: COMPRESSED GAS, N.O.S.	
Class (IATA)	: 2	
SECTION 15: Regulatory inform	nation	
15.1. US Federal regulations		
Carbon dioxide (124-38-9)		

	Carbon dioxide (124-38-9)
	Listed on the United States TSCA (Toxic Substances Control Act) inventory
Nitrogen (7727-37-9)	
	Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations CANADA

Carbon dioxide (124-38-9)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas	
Nitrogen (7727-37-9)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas	

EU-Regulations

Carbon dioxide (124-38-9)	
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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)

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

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Car	bon dioxide (124-38-9)
Liste Liste Liste Liste Liste	ed on the AICS (Australian Inventory of Chemical Substances) ed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) ed on the Japanese ENCS (Existing & New Chemical Substances) inventory ed on the Korean ECL (Existing Chemicals List) ed on NZIoC (New Zealand Inventory of Chemicals) ed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) ed on the Canadian IDL (Ingredient Disclosure List)
Nitrogen (7727-37-9)	
Liste Liste Liste	ed on the AICS (Australian Inventory of Chemical Substances) ed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) ed on the Korean ECL (Existing Chemicals List) ed on NZIoC (New Zealand Inventory of Chemicals) ed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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

Indication of changes	: Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.
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:

Compressed gas	Gases under pressure Compressed gas
Liquefied gas	Gases under pressure Liquefied gas
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 gas mixture. To the best of Calgaz's knowledge, the information contained herein is reliable and accurate as of this date; however, accruacy, 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 gas mixture is combined with other materials, all component properties must be consult the latest edition.