

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/29/2015 Version: 2.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
	: Mixture
	: Methane (0.00001% - 14.00%), Carbon Dioxide (3.00% - 30.00%) in Nitrogen
	: SG-2003-02772
	ance or mixture and uses advised against
	: Test gas/Calibration gas.
1.3. Details of the supplier of the safety da	ata sheet
Air Liquide 2700 Post Oak Boulevard Houston, TX 77056 - USA	
T 1-800-819-1704 www.us.airliquide.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	xture
GHS-US classification	
Compressed gas	H280
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS04
Signal word (GHS-US)	: Warning
	: H280 - Contains gas under pressure; may explode if heated
	OSHA-H01 - May displace oxygen and cause rapid suffocation
	CGA-HG03 - May increase respiration and heart rate
Precautionary statements (GHS-US)	: P202 - Do not handle until all safety precautions have been read and understood P261 - Avoid breathing gas
	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-PG02 - Protect from sunlight when ambient temperature exceeds 52 C (125 P) 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

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	nation on in	gredients		
3.1. Substance				
Not applicable				
3.2. Mixture				
Name		Product identifier	%	GHS-US classification
Nitrogen		(CAS No) 7727-37-9	56 - 96.99999	Compressed gas, H280
Carbon dioxide		(CAS No) 124-38-9	3 - 30	Liquefied gas, H280
Methane		(CAS No) 74-82-8	0.00001 - 14	Flam. Gas 1, H220 Compressed gas, H280
Full text of H-phrases: see section 16			I	
SECTION 4: First aid measures				
4.1. Description of first aid measu				
First-aid measures after inhalation		ove victim to fresh air and keep a ell, seek medical advice.	t rest in a position comf	ortable for breathing. If you feel
First-aid measures after skin contact		rse effects not expected from this		
First-aid measures after eye contact	: Adve	rse effects not expected from this	s product.	
First-aid measures after ingestion	: Inges	stion is not considered a potential	route of exposure.	
4.2. Most important symptoms and	d effects, both	acute and delayed		
Symptoms/injuries after inhalation	: May	displace oxygen and cause rapid	suffocation. May increa	se respiration and heart rate.
Symptoms/injuries after skin contact	: Adve	rse effects not expected from this	s product.	
Symptoms/injuries after eye contact	: Adve	rse effects not expected from this	s product.	
Symptoms/injuries after ingestion	: Inges	stion is not considered a potential	route of exposure.	
Symptoms/injuries upon intravenous	: Not k			
administration				
	: Adve	rse effects not expected from this	s product.	
Chronic symptoms 4.3. Indication of any immediate m	nedical attentio	n and special treatment neede	•	
Chronic symptoms 4.3. Indication of any immediate m	nedical attentio	n and special treatment neede	•	
Chronic symptoms <b>4.3.</b> Indication of any immediate m If you feel unwell, seek medical advice. If I	nedical attention breathing is diffi	n and special treatment neede	•	
Chronic symptoms 4.3. Indication of any immediate m If you feel unwell, seek medical advice. If I SECTION 5: Firefighting measu	nedical attention breathing is diffi	n and special treatment neede	•	
Chronic symptoms <b>4.3.</b> Indication of any immediate m f you feel unwell, seek medical advice. If I SECTION 5: Firefighting measu 5.1. Extinguishing media	nedical attentio breathing is diffi res	n and special treatment neede	d	
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Chronic symptoms 4.3. Indication of any immediate m If you feel unwell, seek medical advice. If I SECTION 5: Firefighting measu 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from t	edical attentio breathing is diffi res : Use e : Do no the substance of	n and special treatment needed cult, give oxygen. extinguishing media appropriate f ot use water jet to extinguish.	d	
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Chronic symptoms 4.3. Indication of any immediate m f you feel unwell, seek medical advice. If I SECTION 5: Firefighting measu 5.1. Extinguishing media Suitable extinguishing media Jnsuitable extinguishing media 5.2. Special hazards arising from t Fire hazard	edical attention breathing is diffi res : Use e : Do no the substance e : The p : Produ	extinguishing media appropriate for use water jet to extinguish.	d or surrounding fire. ild pressure, rupturing c	losed containers, spreading fire
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Chronic symptoms         4.3.       Indication of any immediate m         If you feel unwell, seek medical advice. If I         SECTION 5: Firefighting measu         5.1.       Extinguishing media         Suitable extinguishing media         Unsuitable extinguishing media         5.2.       Special hazards arising from t         Fire hazard         Explosion hazard         Reactivity         5.3.       Advice for firefighters	edical attentio breathing is diffi res : Use e : Do no : Do no : Do no : The p : Produ and in : None : In cas or fog : Stand fighte	extinguishing media appropriate foot use water jet to extinguish. or mixture product is not flammable. uct is not explosive. Heat may bu ncreasing risk of burns and injurie known. se of fire: Evacuate area. Fight fir	d or surrounding fire. ild pressure, rupturing c es. re remotely due to the ri Exercise caution when oment (e.g., Self Contain	sk of explosion. Use water spray fighting any chemical fire. ned Breathing Apparatus) for fire
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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.
Emerger	ncy procedures	: Evacuate and limit access. Ventilate area.
6.2.	Environmental precautions	
Try to st	op release if safe to do so.	
6.3.	Methods and material for containment	t and cleaning up
For conta	ainment	: Try to stop release if safe to do so.
Methods	for cleaning up	: Dispose of this material and its container in accordance with local 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 equipment rated for cylinder pressure. Close valve after each use and when empty.
Precauti	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.	Conditions for safe storage, including	g 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 cylinder from physical damage. Store in well ventilated area.
Incompa	tible products	: None known.
Incompa	tible materials	: None known.

#### 7.3. Specific end use(s)

See Section 1.2.

Methane (0.00001%	5 - 14.00%), Carbon Dioxide (3.00% - 30.00%) in Nit	ogen	
ACGIH	Not applicable		
OSHA	Not applicable		
Carbon dioxide (12	4-38-9)		
ACGIH	ACGIH TWA (ppm)	5000 ppm	
ACGIH	ACGIH STEL (ppm)	30000 ppm	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	9000 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	5000 ppm	
Nitrogen (7727-37-9	9)		
ACGIH	Not applicable		
OSHA	Not applicable		
Methane (74-82-8)			
ACGIH	ACGIH TWA (ppm)	1000 ppm	
OSHA	Not applicable	·	

### 8.2. Exposure controls Appropriate engineering controls : Ensure exposure is below occupational

: 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.

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: Wear working gloves when handling gas containers. 29 CFR 1910.138: Hand Protection.				
: Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.				
: Wear suitable protective clothing, e.g lab coats, coveralls or flame resistant clothing.				
: None necessary during normal and routine operations. See Sections 5 & 6.				
: None necessary during normal and routine operations.				
: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.				
: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.				

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	: Not applicable - not flammable			
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 - not flammable.			
Oxidizing properties	: None.			
Vapor pressure	: No data available			
Relative density	: No data available			
Relative vapor density at 20 °C	: No data available			
Molecular mass	: Not applicable for gas-mixtures.			
Relative gas density	: Similar to air			
Solubility	: No data available			
Log Pow	: No data available			
Log Kow	: 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						
10.1.	Reactivity					
None kr	nown.					
10.2.	Chemical stability					
Stable u	under normal conditions.					
10.3.	Possibility of hazardous reactions					
None kr	nown.					
10.4.	Conditions to avoid					
None u	None under recommended storage and handling conditions (see section 7).					

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#### 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.

<b>ECT</b>	'ION 1'	: Tox	icolog	jical i	inform	ation
3E	СТ	CTION 11	CTION 11: Tox	CTION 11: Toxicolog	CTION 11: Toxicological	CTION 11: Toxicological inform

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
Methane (74-82-8)	
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 target organ toxicity (single exposure)	
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May displace oxygen and cause rapid suffocation. May increase respiration and heart rate.
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.	
Methane (74-82-8)		
Persistence and degradability	The substance is biodegradable. Unlikely to persist. No data available.	
2.3. Bioaccumulative potential		
Carbon dioxide (124-38-9)		
BCF fish 1	(no bioaccumulation)	

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Carbon dioxide (124-38-9)	
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.
Methane (74-82-8)	
Log Pow	Not applicable for gas mixtures
Log Kow	Not applicable for gas mixtures
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
12.4. 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.
Methane (74-82-8)	
Mobility in soil	No data available.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
12.5. Other adverse effects	
Effect on ozone layer	: No known effects from this product.

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.				

### **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)	: UN1956
Proper Shipping Name (DOT)	: Compressed gas, n.o.s.
Hazard labels (DOT)	: 2.2 - Non-flammable gas
	2
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 302;305
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306;307
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 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.

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#### **Additional information**

Auditional information	
Other information	: No supplementary information available.
ADR	
Transport document description	: UN 1956 COMPRESSED GAS, N.O.S., 2.2, (E)
Class (ADR)	: 2 - Gases
Hazard identification number (Kemler No.)	: 20
Classification code (ADR)	: 1A
Hazard labels (ADR)	: 2.2 - Non-flammable compressed gas
	2
Orange plates	20 1956
Tunnel restriction code (ADR)	: E
Limited quantities (ADR)	: 120ml
Excepted quantities (ADR)	: E1
Transport by sea	
UN-No. (IMDG)	: 1956
Proper Shipping Name (IMDG)	: COMPRESSED GAS, N.O.S.
Class (IMDG)	: 2 - Gases
Air transport	
UN-No. (IATA)	: 1956
Proper Shipping Name (IATA)	: COMPRESSED GAS, N.O.S.
Class (IATA)	: 2
· · ·	

#### **SECTION 15: Regulatory information**

15.1. US Federal regulations		
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		
Methane (74-82-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

#### 15.2. International regulations CANADA

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	
Methane (74-82-8)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas	

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#### **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)

#### Methane (74-82-8)

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] No additional information available

#### **National regulations**

Carbon dioxide (124-38-9)
isted on the AICS (Australian Inventory of Chemical Substances) isted on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) isted on the Japanese ENCS (Existing & New Chemical Substances) inventory isted on the Korean ECL (Existing Chemicals List)
isted on NZIoC (New Zealand Inventory of Chemicals)
isted on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
isted on the Canadian IDL (Ingredient Disclosure List)
Nitrogen (7727-37-9)
isted on the AICS (Australian Inventory of Chemical Substances) isted on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) isted on the Korean ECL (Existing Chemicals List) isted on NZIoC (New Zealand Inventory of Chemicals) isted on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Nethane (74-82-8)
isted on the AICS (Australian Inventory of Chemical Substances) isted on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) isted on the Japanese ENCS (Existing & New Chemical Substances) inventory isted on the Korean ECL (Existing Chemicals List) isted on NZIoC (New Zealand Inventory of Chemicals) isted 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

#### Methane (74-82-8)

- 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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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
Flam. Gas 1	Flammable gases Category 1
Liquefied gas	Gases under pressure Liquefied gas
H220	Extremely flammable 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 product. To the best of Air Liquide America Corporation's 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.