

Safety Data Sheet

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

Date of issue: 09/23/2015 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Carbon Dioxide (0.00001% - 2.9999%), Carbon Monoxide (0.10% - 0.99%), Methane

(0.00001% - 11.00%) in Helium

Product code : SG-2004-01827

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Test gas/Calibration gas.

1.3. Details of the supplier of the safety data sheet

Air Liquide 9811 Katy Freeway, Suite 100 Houston, TX 77024 - USA T 1-800-819-1704

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

www.us.airliquide.com

Compressed gas H280 - Contains gas under pressure; may explode if heated

Repr. 1A H360 - May damage fertility or the unborn child

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS04

604 GH

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H280 - Contains gas under pressure; may explode if heated

H360 - May damage fertility or the unborn child

CGA-HG10 - Asphyxiating even with adequate oxygen

Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe 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

P405 - Store locked up

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

Other hazards not contributing to the : This product contains a chemical asphyxiant.

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classification

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Substance

Not applicable

3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Helium	(CAS No) 7440-59-7	85.0101 - 99.89998	Compressed gas, H280
Methane	(CAS No) 74-82-8	0.00001 - 11	Flam. Gas 1, H220 Compressed gas, H280
Carbon dioxide	(CAS No) 124-38-9	0.00001 - 2.9999	Liquefied gas, H280
Carbon Monoxide	(CAS No) 630-08-0	0.1 - 0.99	Flam. Gas 1, H220 Compressed gas, H280 Acute Tox. 3 (Inhalation:gas), H331 Repr. 1A, H360 STOT RE 1, H372

Full text of H-phrases: see section 16

SECTION 4: First aid measures

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.

Ingestion is not considered a potential route of exposure. First-aid measures after ingestion

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Asphyxiating even with adequate oxygen. 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 : May damage fertility. May damage the unborn child.

Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice. If breathing is difficult, give oxygen. Obtain medical attention if breathing difficulty persists.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use water jet to extinguish.

Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable.

Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire Explosion hazard

and increasing risk of burns and injuries.

Reactivity : None known.

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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment 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 : 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

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.

6.2. Environmental precautions

Try to stop release if safe to do so.

6.3. Methods and material for containment and cleaning up

For containment : 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional 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.

Precautions 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 any incompatibilities

Technical 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. Store locked up.

Incompatible products : None known. Incompatible 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/m³)	9000 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	5000 ppm	

Carbon Monoxide (630-08-0)		
ACGIH TWA (ppm) 25 ppm		
OSHA	OSHA PEL (TWA) (mg/m³)	55 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm

Methane (74-82-8)		
ACGIH	ACGIH TWA (ppm)	1000 ppm

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Exposure controls

Appropriate 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. Consider work permit system e.g. for maintenance activities. Alarm detectors should be used

when toxic gases may be released.

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.

: Not applicable - not flammable.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Gas

Appearance Clear, colorless gas.

Color : Colorless Odor Odorless

No data available Odor threshold No data available pΗ No data available Melting point 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

Relative evaporation rate (ether=1) : Not applicable for gas-mixtures. Flammability (solid, gas) See Section 2.1 and 2.2 **Explosion limits** Not applicable - not flammable

Oxidizing properties : None.

No data available Vapor pressure Relative density No data available Relative vapor density at 20 °C No data available

Molecular mass Not applicable for gas-mixtures.

Relative gas density Lighter or similar to air Solubility No data available Log Pow No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity : No data available No data available Viscosity, kinematic No data available Viscosity, dynamic

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive properties

None known.

Chemical stability

Stable under normal conditions.

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Possibility of hazardous reactions

None known.

Conditions to avoid 10.4.

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

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

Information on toxicological effects

Acute toxicity : Not classified

0 1 " 11 (404.00.0)			
Carbon dioxide (124-38-9)			
LC50 inhalation rat (ppm)	C50 inhalation rat (ppm) 820000 ppm/4h		
Helium (7440-59-7)			
LC50 inhalation rat (ppm) 820000 ppm/4h			
Carbon Monoxide (630-08-0)			
LC50 inhalation rat (ppm)	1880 ppm/4h		
ATE US (gases)	1880.000 ppmV/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 : May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Asphyxiating even with adequate oxygen. Symptoms/injuries after skin contact : Adverse effects not expected from this product. Adverse effects not expected from this product. Symptoms/injuries after eye contact

Symptoms/injuries after ingestion Ingestion is not considered a potential route of exposure.

Symptoms/injuries upon intravenous : Not known.

administration

: May damage fertility. May damage the unborn child.

SECTION 12: Ecological information

Toxicity

Chronic symptoms

No additional information available

Persistence and degradability

Carbon dioxide (124-38-9)		
Persistence and degradability	No ecological damage caused by this product.	
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Helium (7440-59-7)		
Persistence and degradability No ecological damage caused by this product.		
Carbon Monoxide (630-08-0)		
Persistence and degradability Will not undergo hydrolysis. Not readily biodegradable. Not applicable for inorganic gases.		
Methane (74-82-8)		
Persistence and degradability	The substance is biodegradable. Unlikely to persist. No data available.	

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.		
Helium (7440-59-7)			
Log Pow	Not applicable for inorganic gases.		
Bioaccumulative potential	No ecological damage caused by this product.		
Carbon Monoxide (630-08-0)			
Log Pow	1.78		
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.		
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.			
Helium (7440-59-7)			
Ecology - soil No ecological damage caused by this product.			
Carbon Monoxide (630-08-0)			
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.		
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., 2.2

UN-No.(DOT) : UN1956

Proper Shipping Name (DOT) : Compressed gas, n.o.s.

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Transport hazard class(es) (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

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 : 75 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

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.

TDG

Transport document description : UN1956 COMPRESSED GAS, N.O.S., 2.2

UN-No. (TDG) : UN1956

TDG Proper Shipping Name : COMPRESSED GAS, N.O.S.

TDG Primary Hazard Classes : 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.

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

Helium (7440-59-7)

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

Carbon Monoxide (630-08-0)

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

Carbon dioxide (124-38-9)			
Listed on the Canadian DSL (Domestic Sustances List)			
WHMIS Classification Class A - Compressed Gas			
Helium (7440-59-7)			
Listed on the Canadian DSL (Domestic Sustances List)			
WHMIS Classification Class A - Compressed Gas			

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Carbon Monoxide (630-08-0)			
Listed on the Canadian DSL (Domestic Sustance	es List)		
WHMIS Classification	MIS Classification Class A - Compressed Gas Class B Division 1 - Flammable Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects		
Methane (74-82-8)			
Listed on the Canadian DSL (Domestic Sustances List)			
WHMIS Classification Class A - Compressed Gas Class B Division 1 - Flammable Gas			

EU-Regulations

No additional information available

National regulations

Carbon dioxide (124-38-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Helium (7440-59-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Carbon Monoxide (630-08-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Methane (74-82-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

Carbon Monoxide (630-08-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	Yes	No	No	

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

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Helium (7440-59-7)

- 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

Carbon Monoxide (630-08-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard 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.

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:

Acute Tox. 3 (Inhalation:gas) Compressed gas Gases under pressure Compressed gas Flam. Gas 1 Liquefied gas Repr. 1A STOT RE 1 H220 Extremely flammable gas H280 H331 H360 H372 Acute toxicity (inhalation:gas) Category 3 Gases under pressure Compressed gas Flammable gases Category 1 Gases under pressure Liquefied gas Reproductive toxicity Category 1A Specific target organ toxicity (repeated exposure) Category 1 Extremely flammable gas Contains gas under pressure; may explode if heated Toxic if inhaled May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure	c paccc.	
Flam. Gas 1 Liquefied gas Gases under pressure Liquefied gas Repr. 1A Reproductive toxicity Category 1A STOT RE 1 Specific target organ toxicity (repeated exposure) Category 1 H220 Extremely flammable gas H280 Contains gas under pressure; may explode if heated H331 Toxic if inhaled H360 May damage fertility or the unborn child	Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Liquefied gas Repr. 1A Reproductive toxicity Category 1A STOT RE 1 Specific target organ toxicity (repeated exposure) Category 1 H220 Extremely flammable gas H280 Contains gas under pressure; may explode if heated H331 Toxic if inhaled H360 May damage fertility or the unborn child	Compressed gas	Gases under pressure Compressed gas
Repr. 1A Reproductive toxicity Category 1A STOT RE 1 Specific target organ toxicity (repeated exposure) Category 1 H220 Extremely flammable gas H280 Contains gas under pressure; may explode if heated H331 Toxic if inhaled H360 May damage fertility or the unborn child	Flam. Gas 1	Flammable gases Category 1
STOT RE 1 Specific target organ toxicity (repeated exposure) Category 1 H220 Extremely flammable gas H280 Contains gas under pressure; may explode if heated H331 Toxic if inhaled H360 May damage fertility or the unborn child	Liquefied gas	Gases under pressure Liquefied gas
H220 Extremely flammable gas H280 Contains gas under pressure; may explode if heated H331 Toxic if inhaled H360 May damage fertility or the unborn child	Repr. 1A	Reproductive toxicity Category 1A
H280 Contains gas under pressure; may explode if heated H331 Toxic if inhaled H360 May damage fertility or the unborn child	STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H331 Toxic if inhaled H360 May damage fertility or the unborn child	H220	Extremely flammable gas
H360 May damage fertility or the unborn child	H280	Contains gas under pressure; may explode if heated
, , ,	H331	Toxic if inhaled
H372 Causes damage to organs through prolonged or repeated exposure	H360	May damage fertility or the unborn child
	H372	Causes damage to organs through prolonged or repeated exposure

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.

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