

Hydrogen Sulfide (0.0005 - 0.025%,) Butane (0.1 -1%) Oxygen (<19%) in balance Nitrogen Safety Data Sheet 50224

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/16/2014 Revision date: 09/16/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product form	: Mixture	
Product name	: Hydrogen Sulfide (0.0005 - 0.025%,) Butane (0.1 - 1%) Oxygen (<19%) in balance Nitrogen	
1.2. Relevant identified uses of the s	substance or mixture and uses advised against	
Use of the substance/mixture	: Test gas/Calibration gas.	
1.3. Details of the supplier of the safe	ety data sheet	
Calgaz, division of Air Liquide 821 Chesapeake Drive Cambridge, 21613 - USA T 1-410-228-6400 - F 1-410-228-4251 info@Calgaz.com - www.Calgaz.com		
1.4. Emergency telephone number		
Emergency number	: CHEMTREC: 1-800-424-9300 Internationally: 1-703-527-3887	
SECTION 2: Hazards identification	n	
2.1. Classification of the substance of	or mixture	
Classification (GHS-US)		
Compressed gas H280		
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	
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 CGA-PG05 - Use a back flow preventive device in the piping CGA-PG21 - Open valve slowly 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-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F) P403 - Store in a well-ventilated place P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P313 - Get medical advice/attention	
2.3. Other hazards	CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F) P403 - Store in a well-ventilated place P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing	
2.3. Other hazards No additional information available	CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F) P403 - Store in a well-ventilated place P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing	
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3.1. Substance Not applicable 3.2. **Mixture**

Name	Product identifier	%	Classification (GHS-US)
Nitrogen	(CAS No) 7727-37-9	79.975 - 99.8995	Compressed gas, H280
Oxygen	(CAS No) 7782-44-7	0 - 19	Ox. Gas 1, H270 Compressed gas, H280
Butane	(CAS No) 106-97-8	0.1 - 1	Liquefied gas, H280
Hydrogen sulfide	(CAS No) 7783-06-4	0.0005 - 0.025	Flam. Gas 1, H220 Liquefied gas, H280 Acute Tox. 2 (Inhalation:gas), H330 STOT SE 3, H335

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove 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 e	ffects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
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 med	ical attention and special treatment needed
If you feel unwell, seek medical advice. If bre	athing is difficult, give oxygen.
SECTION 5: Firefighting measure	S
SECTION 5: Firefighting measure	S
	s : Use extinguishing media appropriate for surrounding fire.
5.1. Extinguishing media Suitable extinguishing media	
5.1.Extinguishing mediaSuitable extinguishing mediaUnsuitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. : Do not use water jet.
 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the 	 : Use extinguishing media appropriate for surrounding fire. : Do not use water jet. substance or mixture
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5.1.Extinguishing mediaSuitable extinguishing mediaUnsuitable extinguishing media5.2.Special hazards arising from theFire hazard	 Use extinguishing media appropriate for surrounding fire. Do not use water jet. substance or mixture The product is not flammable. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns
 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the Fire hazard Explosion hazard Reactivity 	 Use extinguishing media appropriate for surrounding fire. Do not use water jet. substance or mixture The product is not flammable. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Product is not explosive.
 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the Fire hazard Explosion hazard 	 : Use extinguishing media appropriate for surrounding fire. : Do not use water jet. substance or mixture : The product is not flammable. : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Product is not explosive. : None known. : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or
5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the Fire hazard Explosion hazard Reactivity 5.3. Advice for firefighters	 Use extinguishing media appropriate for surrounding fire. Do not use water jet. substance or mixture The product is not flammable. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Product is not explosive. None known.
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 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the Fire hazard Explosion hazard Reactivity 5.3. Advice for firefighters Firefighting instructions 	 Use extinguishing media appropriate for surrounding fire. Do not use water jet. substance or mixture The product is not flammable. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Product is not explosive. None known. 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. 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.
 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the Fire hazard Explosion hazard Reactivity 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release media 	 Use extinguishing media appropriate for surrounding fire. Do not use water jet. substance or mixture The product is not flammable. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Product is not explosive. None known. 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. 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.

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.

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6.1.2. For emergency resp	onders			
Protective equipment	:	Standard protective clothing and equi fighters. Equip cleanup crew with prop	pment (e.g., Self Contained Breathing Apparatus) for fire per protection.	
Emergency procedures	:	Evacuate and limit access. Ventilate a	area.	
6.2. Environmental preca	autions			
Try to stop release if safe to do	so.			
6.3. Methods and materia	al for containment	and cleaning up		
For containment		Try to stop release if safe to do so.		
Methods for cleaning up			ner in accordance with local regulations.	
6.4. Reference to other s	ections	·	-	
See also Sections 8 and 13.	cononis			
SECTION 7: Handling an				
7.1. Precautions for safe	•	Pressurized container: Do not pierce	ar hum over ofter use. Use equipment reted for outinder	
Additional hazards when proces		pressure.	or burn, even after use. Use equipment rated for cylinder	
Precautions for safe handling	:	Do not handle until all safety precaution in a well-ventilated area.	ons have been read and understood. Use only outdoors or	
Hygiene measures	:	Do not eat, drink or smoke when usin	g this product.	
7.2. Conditions for safe s	storage, including	any incompatibilities		
Technical measures	:	Comply with applicable regulations.		
Storage conditions	:	Do not expose to temperatures excee Protect cylinder from physical damage	ding 52°C (125°F). Keep container closed when not in use. e. Store in well ventilated area.	
Incompatible products :		None known.		
		None known.		
7.3. Specific end use(s)	7.3. Specific end use(s)			
Test gas/Calibration gas.				
SECTION 8: Exposure c	ontrols/nersor	al protection		
8.1. Control parameters				
o.r. control parameters				
Nitrogen (7727-37-9)				
Butane (106-97-8)				
USA ACGIH	ACGIH STEL (pp	m)	1000 ppm	
Hydrogen sulfide (7783-06-4)			
USA ACGIH	ACGIH TWA (ppr	n)	1 ppm	
USA ACGIH	ACGIH STEL (pp	m)	5 ppm	
USA OSHA	OSHA PEL (Ceilir	ng) (ppm)	20 ppm	
8.2. Exposure controls				
Appropriate engineering controls	s :		xhaust ventilation. Systems under pressure should be re exposure is below occupational exposure limits. maintenance activities.	
Hand protection	:	Wear working gloves when handling g	gas containers. 29CFR 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 ro	outine operations. See sections 5 & 6.	
Thermal hazard protection	:	None necessary during normal and ro	putine 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.

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SECTION 9: Physical and chemical	SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties			
Physical state	: Gas		
Appearance	: Colorless, odorless gas. Clear, colorless gas.		
Molecular mass	: Not applicable for gas-mixtures.		
Color	: Colorless;Colorless		
Odor	: Rotten eggs		
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)	: Not applicable - not flammable		
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 : 20 mg/l 39 mg/l Insoluble 3980 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	iown.
10.2.	Chemical stability
Stable u	inder normal conditions.
10.3.	Possibility of hazardous reactions
None kn	iown.
10.4.	Conditions to avoid
None ur	nder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
None kn	iown.
10.6.	Hazardous decomposition products
Under n	ormal conditions of storage and use hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Nitrogen (7727-37-9)		
LC50 inhalation rat (ppm)	410000 ppm/4h	
Oxygen (7782-44-7)		
LC50 inhalation rat (ppm)	400000 ppm/4h	
Butane (106-97-8)		
LC50 inhalation rat (mg/l)	658 g/m ³ (Exposure time: 4 h)	
LC50 inhalation rat (ppm)	274166.5 ppm/4h	
ATE US (gases)	274166.5000000 ppmV/4h	
ATE US (vapors)	658.0000000 mg/l/4h	
ATE US (dust, mist)	658.0000000 mg/l/4h	
Hydrogen sulfide (7783-06-4)		
LC50 inhalation rat (mg/l)	0.99 mg/l (Exposure time: 1 h)	
LC50 inhalation rat (ppm)	356 ppm/4h	
ATE US (gases)	356.0000000 ppmV/4h	
ATE US (vapors)	0.9900000 mg/l/4h	
ATE US (dust, mist)	0.9900000 mg/l/4h	
kin corrosion/irritation	: Not classified	
Serious eye damage/irritation	pH: Not applicable for gas-mixtures.Not classifiedpH: 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 No known effects from this product.	
spiration hazard	: Not classified Not applicable for gases and gas-mixtures.	
ymptoms/injuries after inhalation	: May displace oxygen and cause rapid suffocation.	
ymptoms/injuries after skin contact	: Adverse effects not expected from this product.	
ymptoms/injuries after eye contact	: Adverse effects not expected from this product.	
symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.	
ymptoms/injuries upon intravenous dministration	: Not known.	
Chronic symptoms	: Adverse effects not expected from this product.	
SECTION 12: Ecological information		
2.1. Toxicity		
cology - general	: No ecological damage caused by this product.	

Hydrogen sulfide (7783-06-4)	
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	0.022 mg/l (Exposure time: 96 h - Species: Gammarus pseudolimnaeus)
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

Persistence and degradability	No data available.
Nitrogen (7727-37-9)	
Persistence and degradability	No ecological damage caused by this product.
• •	
Oxygen (7782-44-7)	
Persistence and degradability	No ecological damage caused by this product.
Butane (106-97-8)	
Persistence and degradability	No data available.
Hydrogen sulfide (7783-06-4)	
Persistence and degradability	Not applicable for inorganic gases.
2.3. Bioaccumulative potential	
•	(0.4, 40) Owner (40%) in belance Nitregen
Log Pow	he (0.1 - 1%) Oxygen (<19%) in balance Nitrogen Not applicable for gas-mixtures.
Log Kow	Not applicable for gas-mixtures.
Bioaccumulative potential	No data available.
•	
Nitrogen (7727-37-9)	Net applicable for inorganic gases
Log Pow Bioaccumulative potential	Not applicable for inorganic gases. No ecological damage caused by this product.
Oxygen (7782-44-7)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No ecological damage caused by this product.
Butane (106-97-8)	
Log Pow	2.89
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
Hydrogen sulfide (7783-06-4)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No data available.
2.4. Mobility in soil	
	ne (0.1 - 1%) Oxygen (<19%) in balance Nitrogen
Mobility in soil	No data available.
Nitrogen (7727-37-9)	
Ecology - soil	No ecological damage caused by this product.
Oxygen (7782-44-7)	
Ecology - soil	No ecological damage caused by this product.
Butane (106-97-8)	
Mobility in soil	No data available.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Hydrogen sulfide (7783-06-4)	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
2.5. Other adverse effects ffect on ozone layer	: None.

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SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste treatment methods	: Contact supplier if guidance is required. May be vented to atmosphere. 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	
In accordance with DOT	
Transport document description	: UN1956 Compressed gas, n.o.s. (Oxygen, Nitrogen)
UN-No.(DOT)	: 1956
DOT NA no.	: UN1956
DOT Proper Shipping Name	: Compressed gas, n.o.s.
Hazard labels (DOT)	: 2.2 - Non-flammable gas
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306;307
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 302;305
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
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.
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 Ensure valve protection device (where provided) is correctly fitted.
ADR	
Transport document description	:
Transport by sea	
UN-No. (IMDG)	: 1956
	: COMPRESSED GAS, N.O.S.
Proper Shipping Name (IMDG) Class (IMDG)	: 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 information	

15.1. US Federal regulations

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Hydrogen sulfide (7783-06-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Listed on United States SARA Section 313		
SARA Section 302 Threshold Planning Quantity (TPQ)	500	
SARA Section 313 - Emission Reporting	1.0 %	

15.2. International regulations

CANADA

Nitrogen (7727-37-9)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas	
Oxygen (7782-44-7)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas Class C - Oxidizing Material	
Butane (106-97-8)		
Listed on the Canadian DSL (Domestic Sustance	es List)	
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas	
Hydrogen sulfide (7783-06-4)		
Listed on the Canadian DSL (Domestic Sustance	es List)	
WHMIS 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 B - Toxic material causing other toxic effects	

EU-Regulations

Hydrogen sulfide (7783-06-4)

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

Hydrogen sulfide (7783-06-4)

Listed on 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)

15.3. US State regulations

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

Oxygen (7782-44-7)

- 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

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Butane (106-97-8)

- 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

Hydrogen sulfide (7783-06-4)

- 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

SECTION 16: Other information	
Indication of changes	: Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.
Revision date	: 09/16/2014
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: see section 16:

Acute Tox. 2 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 2
Compressed gas	Gases under pressure Compressed gas
Flam. Gas 1	Flammable gases Category 1
Liquefied gas	Gases under pressure Liquefied gas
Ox. Gas 1	Oxidizing gases Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H330	Fatal if inhaled
H335	May cause respiratory irritation

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 considered. Data may be changed from time to time. Be sure to consult the latest edition.