

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/02/2015 Version: 2.0

SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	 Nitrogen (0.0001% - 85.00%), Ethane (0.0001% - 99.9996%), Isobutane (0.0001% - 99.9996%), Propane (0.0001% - 99.9996%) in Methane
Product code	: SG-2005-02351
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
Use of the substance/mixture	: Test gas/Calibration gas.
1.3. Details of the supplier of the safe	ty data sheet
Air Liquide 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 o	
Classification (GHS-US)	
Flam. Gas 1 Compressed gas	H220 H280
Full text of H-phrases: see section 16	П200
GHS-US labeling Hazard pictograms (GHS-US)	
	GHS02 GHS04
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H220 - Extremely flammable gas H280 - Contains gas under pressure; may explode if heated OSHA-H01 - May displace oxygen and cause rapid suffocation CGA-HG04 - May form explosive mixtures with air
Precautionary statements (GHS-US)	 P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking 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 P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely P381 - Eliminate all ignition sources if safe to do so P403 - Store in a well-ventilated place P501 - Dispose of contents/container in accordance with local/regional/national/international regulations CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F) CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG14 - Approach suspected leak area with caution

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Ethane	(CAS No) 74-84-0	0.0001 - 99.9996	Flam. Gas 1, H220 Compressed gas, H280
Isobutane	(CAS No) 75-28-5	0.0001 - 99.9996	Flam. Gas 1, H220 Liquefied gas, H280
Propane	(CAS No) 74-98-6	0.0001 - 99.9996	Flam. Gas 1, H220 Liquefied gas, H280
Methane	(CAS No) 74-82-8	0.0001 - 99.9996	Flam. Gas 1, H220 Compressed gas, H280
Nitrogen	(CAS No) 7727-37-9	0.0001 - 85	Compressed gas, H280

Full text of H-phrases: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures after inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.		
First-aid measures after skin contact	Adverse effects not expected from this product.		
First-aid measures after eye contact	Adverse effects not expected from this product.		
First-aid measures after ingestion	Ingestion is not considered a potential route of exposure.		
4.2. Most important symptoms and effects	, both acute and delayed		
Symptoms/injuries after inhalation	May displace oxygen and cause rapid suffocation.		
Symptoms/injuries after skin contact	Adverse effects not expected from this product.		
Symptoms/injuries after eye contact	Adverse effects not expected from this product.		
Symptoms/injuries after ingestion	Ingestion is not considered a potential route of exposure.		
Symptoms/injuries upon intravenous administration	Not known.		
Chronic symptoms	Adverse effects not expected from this product.		
4.3. Indication of any immediate medical a	ttention and special treatment needed		
If you feel unwell, seek medical advice. If breathing	g 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 to extinguish.		
5.2. Special hazards arising from the subs	tance or mixture		
Fire hazard	This product is flammable.		
Explosion hazard	 Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May form flammable/explosive vapor-air mixture. 		
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.		

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SECTION 6: Accidental release measures				
6.1.	6.1. Personal precautions, protective equipment and emergency procedures			
General	measures	: Ensure adequate ventilation.		
6.1.1.	For non-emergency personnel			
Protectiv	ve equipment	: Wear protective equipment consistent with the site emergency plan.		
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			
Protectiv	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. Remove ignition sources. Monitor concentration of released product. Consider the risk of potentially explosive atmospheres. Wear self-contained breathing apparatus when entering atmospheres of unknown contaminant concentration until proven to be safe.		
6.2.	Environmental precautions			
Try to st	op release if safe to do so.			
6.3.	Methods and material for containmer	it and cleaning up		
For cont	ainment	: Try to stop release if safe to do so.		
Methods	s for cleaning up	: Dispose of this material and its container in accordance with local regulations.		
6.4.	Reference to other sections			
See also	o Sections 8 and 13.			
SECT	ON 7: Handling and storage			
7.1.	Precautions for safe handling			
Addition	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. Handle empty containers with care because residual vapors are flammable. In use, may form flammable vapor-air mixture.		
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. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Use only non-sparking tools.		
Hygiene	measures	: Do not eat, drink or smoke when using this product.		
7.2.	Conditions for safe storage, including	g any incompatibilities		
Technic	al measures	: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.		
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	: Oxidizing materials. Air.		
7.3.	Specific end use(s)			

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters** Nitrogen (0.0001% - 85.00%), Ethane (0.0001% - 99.9996%), Isobutane (0.0001% - 99.9996%), Propane (0.0001% - 99.9996%) in Methane ACGIH Not applicable OSHA Not applicable Ethane (74-84-0) ACGIH 1000 ppm ACGIH TWA (ppm) OSHA Not applicable Isobutane (75-28-5) ACGIH ACGIH STEL (ppm) 1000 ppm

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Isobutane (75-28-5)			
OSHA	Not applicable		
Nitrogen (7727-37-9)			
ACGIH			
OSHA	Not applicable		
Propane (74-98-6)			
ACGIH	ACGIH TWA (ppm)	1000 ppm	
OSHA	OSHA PEL (TWA) (mg/m ³)	1800 mg/m ³	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
Methane (74-82-8)			
ACGIH	ACGIH TWA (ppm)	1000 ppm	
OSHA	Not applicable		

8.2.	Exposure controls		
Approp	riate engineering controls	Ensure exposure is below occupational exposure limits. Provide adequate general and loca exhaust ventilation. Systems under pressure should be regularly checked for leakages. Oxy detectors should be used when asphyxiating gases may be released. Consider work permit system e.g. for maintenance activities.	ygen
Hand p	rotection	: Wear working gloves when handling gas containers. 29 CFR 1910.138: Hand Protection.	
Eye pro	tection	: Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.	
Skin an	d body protection	: Wear suitable protective clothing, e.g lab coats, coveralls or flame resistant clothing.	
Respira	tory protection	: None necessary during normal and routine operations. See Sections 5 & 6.	
Therma	I hazard protection	: None necessary during normal and routine operations.	
Environ	mental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.	
Other ir	nformation	: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.	

SECTION 9: Physical and chemical properties

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Solubility	: No data available
Relative gas density	: Heavier or similar to air
Molecular mass	: Not applicable for gas-mixtures.
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Vapor pressure	: No data available
Oxidizing properties	: None.
Explosive properties	: Without adequate ventilation formation of explosive mixtures may be possible.
Explosion limits	: No data available
Flammability (solid, gas)	: See Section 2.1 and 2.2
Relative evaporation rate (butyl acetate=1)	: No data available
Flash point	: No Data Available
Boiling point	: No Data Available
Freezing point	: No data available
Melting point	: No Data Available
рН	: No data available
Odor threshold	: No Data Available
Odor	: gasoline-like
Color	: Colorless
Appearance	: Clear, colorless gas.
Physical state	: Gas
9.1. Information on basic physical and	d chemical properties

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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	
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity	
10.1. Reactivity	
None known.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Can form explosive mixture with air.	
10.4. Conditions to avoid	
None under recommended storage and handling	conditions (see section 7)
10.5. Incompatible materials	
Oxidizing materials. Air.	
10.6. Hazardous decomposition products	
Under normal conditions of storage and use haza	ardous decomposition products should not be produced.
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Ethane (74-84-0)	
LC50 inhalation rat (mg/l)	658 mg/l/4h
LC50 inhalation rat (ppm)	820000 ppm/4h
Isobutane (75-28-5)	
LC50 inhalation rat (mg/l)	658 mg/l/4h
LC50 inhalation rat (ppm)	276713.11 ppm/4h
Nitrogen (7727-37-9)	
LC50 inhalation rat (ppm)	820000 ppm/4h
Propane (74-98-6)	
LC50 inhalation rat (mg/l)	658 mg/l/4h
LC50 inhalation rat (ppm)	282800 ppm/4h
Methane (74-82-8)	
LC50 inhalation rat (ppm)	820000 ppm/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
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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 informat	ion
12.1. Toxicity	
No additional information available	

12.2. Persistence and degradability

Ethane (74-84-0)		
Persistence and degradability	The substance is biodegradable. Unlikely to persist.	
Isobutane (75-28-5)		
Persistence and degradability	The substance is biodegradable. Unlikely to persist.	
Nitrogen (7727-37-9)		
Persistence and degradability	No ecological damage caused by this product.	
Propane (74-98-6)		
Persistence and degradability	The substance is biodegradable. Unlikely to persist.	
Methane (74-82-8)		
Persistence and degradability	The substance is biodegradable. Unlikely to persist. No data available.	

12.3. Bioaccumulative potential

Ethane (74-84-0)		
Log Pow	1.81	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.	
Isobutane (75-28-5)		
BCF fish 1	1.57 - 1.97	
Log Pow	2.76	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.	
Nitrogen (7727-37-9)		
Log Pow	Not applicable for inorganic gases.	
Bioaccumulative potential	No ecological damage caused by this product.	
Propane (74-98-6)		
Log Pow	2.36	
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		
Ethoma (74.94.9)		

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Isobutane (75-28-5)	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Nitrogen (7727-37-9)	
Ecology - soil	No ecological damage caused by this product.
Propane (74-98-6)	
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.
2.5. Other adverse effects	
Effect on ozone layer	: No known effects from this product.
Effect on the global warming	: Contains greenhouse gas(es) not covered by 842/2006/EC.

SECTION 13: Disposal considerations	S and the second se
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 gas should be flared through a suitable burner with flash back arrestor. Do not discharge into areas where there is a risk of forming an explosive mixture with air.
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	LINI1054 Comproved and flammable in a s
Transport document description	: UN1954 Compressed gas, flammable, n.o.s.
UN-No.(DOT)	: UN1954
Proper Shipping Name (DOT)	: Compressed gas, flammable, n.o.s.
Hazard labels (DOT)	: 2.1 - Flammable gas
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
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Additional information	
Other information	: No supplementary information available.

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ADR	
Transport document description	: UN 1954, 2.1, (B/D)
Class (ADR)	: 2 - Gases
Hazard identification number (Kemler No.)	: 23
Classification code (ADR)	: 1F
Hazard labels (ADR)	: 2.1 - Flammable gases
Orange plates	23 1954
Tunnel restriction code (ADR)	: B/D
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Transport by sea	
UN-No. (IMDG)	: 1954
Proper Shipping Name (IMDG)	: COMPRESSED GAS, FLAMMABLE, N.O.S.
Class (IMDG)	: 2 - Gases
Air transport	
UN-No.(IATA)	: 1954
Proper Shipping Name (IATA)	: COMPRESSED GAS, FLAMMABLE, N.O.S.
Class (IATA)	: 2

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Ethane (74-84-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Isobutane (75-28-5)		
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		
Propane (74-98-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Methane (74-82-8)		
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory	
15.2. International regulations		
CANADA		
Ethane (74-84-0)		
Listed on the Canadian DSL (Domestic Sustand	ces List)	
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas	
Isobutane (75-28-5)		
Listed on the Canadian DSL (Domestic Sustand	ces List)	
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas	

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Nitrogen (7727-37-9)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas	
Propane (74-98-6)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable 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	
EU-Regulations		
Ethane (74-84-0)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Isobutane (75-28-5)		
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)		
Propane (74-98-6)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
No (harris / 74,00,0)		

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

Ethane (74-84-0)
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)
Isobutane (75-28-5)
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)
Nitrogen (7727-37-9)
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 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 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)

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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

Ethane (74-84-0)	
U.S Massachusetts - Right To Know List	
U.S New Jersey - Right to Know Hazardous Substance List	
U.S Pennsylvania - RTK (Right to Know) List	
Isobutane (75-28-5)	
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	
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Propane (74-98-6)	
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	
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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

: 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.