

7 Components in Helium Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/20/2015 Version: 2.0

Product code       ::       SG-2008-02933         1.2.       Relovant identified uses of the substance or mixture and uses advised against         Jace of the substance/mixture       :       Test gas/Calibration gas.         1.3.       Details of the subplier of the safety data sheet         Wr. Liquide       :       Test gas/Calibration gas.         2700 Post Oak Boulevard       :       :         You Spatial Context State Stat	
Product name : 7 Components in Helium Product code : SG-2008-0233 12. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Test gas/Calibration gas. 13. Details of the supplier of the safety data sheet Ar Liquide 2700 Post Oak Boulevard Houston, 1X 77056 - USA 17.800-819-1704 www.us airdiculate com 14. Emergency telephone number Emergency number : CHEMTREC: 1-800-424-9300 SECTION 2: Hazards identification 21. Classification of the substance or mixture GHS-US classification Compressed gas H280 Full text of H-phrases: see section 16 22. Label elements GHS-US classification GHS-US classification Compressed gas H280 Full text of H-phrases: see section 16 22. Label elements GHS-US interments GHS-US interments (GHS-US) Frecautionary statements (GHS-US) Frecautionary statements (GHS-US) Fignal word (GHS-US) Frecautionary statements (GHS-US) CGHS-US interments GHS-P31 - I May displace oxygen and cause rapid suffocation Precautionary statements (GHS-US) Fignal word (GHS-US) Frecautionary statements (GHS-US) Fignal word (GHS-U	
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2700 Post Oak Boulevard Houston, TX 77066 - USA www.us.aidquidde.com 1.4. Emergency tolephone numbor Emergency number : CHEMTREC: 1-800-424-9300 SECTION 2: Hazards identification 2.1. Classification of the substance or mixture 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) : Warning Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : H280 - Contains gas under pressure; may explode if heated OSHA-H01 - May displace oxygen and cause rapid sufficiention Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and unders P270 - Vear yee protection, face protection, protective gloves, protective clip P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove person to fresh ari and keep comfortable fi P304-P30 - if inhaled. Remove pe	
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<ul> <li>2.2. Label elements</li> <li>GHS-US labeling</li> <li>Hazard pictograms (GHS-US)</li> <li>Signal word (GHS-US)</li> <li>Hazard statements (GHS-US)</li> <li>Precautionary statements (GHS-US)</li> <li>Precautionary statements (GHS-US)</li> <li>Precautionary statements (GHS-US)</li> <li>P202 - Do not handle until all safety precautions have been read and unders P271 - Use only outdoors or in a well-ventilated area P280 - Wear eye protection, face protection, protective gloves, protective of P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for P304+P340 - If inhaled: P400 - Vertex from sunlight when ambient temperature exceeds 52°C GGA-PG05 - Use a back flow preventive device in the piping CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG21 - Open valve slowly</li> <li>2.3. Other hazards</li> <li>No additional information available</li> <li>2.4. Unknown acute toxicity (GHS US)</li> <li>Not applicable</li> <li>SECTION 3: Composition/information on ingredients</li> </ul>	
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Signal word (GHS-US)       : Warning         Hazard statements (GHS-US)       : H280 - Contains gas under pressure; may explode if heated OSHA-H01 - May displace oxygen and cause rapid suffocation         Precautionary statements (GHS-US)       : H280 - Contains gas under pressure; may explode if heated OSHA-H01 - May displace oxygen and cause rapid suffocation         : P202 - Do not handle until all safety precautions have been read and unders P271 - Use only outdoors or in a well-ventilated area         : P202 - Do not handle until all safety precautions have been read and unders P271 - Use only outdoors or in a well-ventilated area         : P203 - Do not handle until all safety precautions have been read and unders P271 - Use only outdoors or in a well-ventilated area         : P204 - Do not handle until all safety precautions have been read and unders P271 - Use only outdoors or in a well-ventilated area         : P205 - Do not handle until all safety precautions have been read and unders P271 - Use only outdoors or in a well-ventilated area         : P205 - Dispose of contents/container in accordance with local/regional/natio regulations         : CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C CGA-PG06 - Close valve after each use and when empty         : CGA-PG05 - Use a back flow preventive device in the piping         : CGA-PG06 - Close valve after each use and when empty         : CGA-PG14 - Approach suspected leak area with caution         : CGA-PG21 - Open valve slowly         : 2.1       Unknown acute toxicity (GHS US) <t< td=""><td></td></t<>	
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Not applicable SECTION 3: Composition/information on ingredients	
SECTION 3: Composition/information on ingredients	
2.4 Substance	
Not applicable	
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Name	Product identifier	%	GHS-US classification
Helium	(CAS No) 7440-59-7	0.00001 - 99.99993	Compressed gas, H280
Nitrogen	(CAS No) 7727-37-9	0.00001 - 84.90019	Compressed gas, H280
Tetrafluoromethane (R14)	(CAS No) 75-73-0	0.00001 - 5	Liquefied gas, H280
Methane	(CAS No) 74-82-8	0.00001 - 5	Flam. Gas 1, H220 Compressed gas, H280
Carbon dioxide	(CAS No) 124-38-9	0.00001 - 2.9999	Liquefied gas, H280
Oxygen	(CAS No) 7782-44-7	0.00001 - 1	Ox. Gas 1, H270 Compressed gas, H280
Hydrogen	(CAS No) 1333-74-0	0.00001 - 1	Flam. Gas 1, H220 Compressed gas, H280
Carbon Monoxide	(CAS No) 630-08-0	0.00001 - 0.0999	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

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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 eff	fects, 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 media	cal attention and special treatment needed
If you feel unwell, seek medical advice. If brea	thing 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 s	substance or mixture
Fire hazard	: The product is not flammable.
Explosion hazard	<ul> <li>Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.</li> </ul>
Reactivity	: None known.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire
	fighters. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	fighters. Do not enter fire area without proper protective equipment, including respiratory protection.
	fighters. Do not enter fire area without proper protective equipment, including respiratory protection.

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General mea	asures				•	Ensure	adeo	nuate	vent	ilati	on

6.1.1.	For non-emergency personnel		
Protectiv	re equipment	:	Wear protective equipment consistent with the site emergency plan.
Emerger	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.
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 containme	nt	and cleaning up
For cont	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		
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.
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, includi	ng	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.

#### SECTION 8: Exposure controls/personal protection

8.1. Control para	ameters				
7 Components in He	əlium				
ACGIH	Not applicable				
OSHA	Not applicable	Not applicable			
Carbon Monoxide (6	630-08-0)				
ACGIH	ACGIH TWA (ppm)	25 ppm			
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	DSHA PEL (TWA) (mg/m <sup>3</sup> ) 55 mg/m <sup>3</sup>			
OSHA	OSHA PEL (TWA) (ppm)	OSHA PEL (TWA) (ppm) 50 ppm			
Tetrafluoromethane	(R14) (75-73-0)				
ACGIH	Not applicable	Not applicable			
OSHA	Not applicable	Not applicable			
Carbon dioxide (124	I-38-9)				
ACGIH	ACGIH TWA (ppm)	ACGIH TWA (ppm) 5000 ppm			
ACGIH	ACGIH STEL (ppm)	ACGIH STEL (ppm) 30000 ppm			
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	9000 mg/m³			
OSHA	OSHA PEL (TWA) (ppm)	OSHA PEL (TWA) (ppm) 5000 ppm			

Helium (7440-59-7)					
ACGIH	ot applicable				
OSHA	Not applicable	Not applicable			
Nitrogen (7727-37-9)	Nitrogen (7727-37-9)				
ACGIH	Not applicable				
OSHA	Not applicable	ot applicable			
Oxygen (7782-44-7)					
ACGIH	Not applicable				
OSHA	Not applicable				
Methane (74-82-8)	Methane (74-82-8)				
ACGIH	ACGIH TWA (ppm)	1000 ppm			
OSHA	OSHA Not applicable				
Hydrogen (1333-74-0)	Hydrogen (1333-74-0)				
ACGIH	Not applicable				
OSHA	Not applicable	Not applicable			

8.2. 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. Oxygen detectors should be used when asphyxiating gases may be released. Consider work permit system e.g. for maintenance activities.
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	<ul> <li>Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.</li> </ul>
Other information	: 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	d chemical properties	
Physical state	: Gas	
Appearance	: Clear, colorless gas.	
Color	: Colorless	
Odor	: No data available	
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.	
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Relative gas density	: Lighter or 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 known.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
None known.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
None known.
10.6. Hazardous decomposition products
Under normal conditions of storage and use hazardous decomposition products should not be produced.
SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

: Not classified Acute toxicity Carbon Monoxide (630-08-0) LC50 inhalation rat (ppm) 1880 ppm/4h ATE US (gases) 1880.000 ppmV/4h Tetrafluoromethane (R14) (75-73-0) LC50 inhalation rat (ppm) 820000 ppm/4h Carbon dioxide (124-38-9) LC50 inhalation rat (ppm) 820000 ppm/4h Helium (7440-59-7) LC50 inhalation rat (ppm) 820000 ppm/4h Nitrogen (7727-37-9) LC50 inhalation rat (ppm) 820000 ppm/4h Oxygen (7782-44-7) LC50 inhalation rat (ppm) 800000 ppm/4h Methane (74-82-8) LC50 inhalation rat (ppm) 820000 ppm/4h ATE US (gases) 820000.000 ppmV/4h Hydrogen (1333-74-0) LC50 inhalation rat (ppm) 820000 ppm/4h ATE US (gases) 820000.000 ppmV/4h : Not classified Skin corrosion/irritation 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 (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May displace oxygen and cause rapid suffocation.
Symptoms/injuries after skin contact	: Adverse effects not expected from this product.
Symptoms/injuries after eye contact	: Adverse effects not expected from this product.
Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.
Symptoms/injuries upon intravenous administration	: Not known.
Chronic symptoms	: Adverse effects not expected from this product.

### SECTION 12: Ecological information

12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

Carbon Monoxide (630-08-0)		
Persistence and degradability	Will not undergo hydrolysis. Not readily biodegradable. Not applicable for inorganic gases	
Tetrafluoromethane (R14) (75-73-0)		
Persistence and degradability	No data available.	
Carbon dioxide (124-38-9)		
Persistence and degradability	No ecological damage caused by this product.	
Helium (7440-59-7)		
Persistence and degradability	No ecological damage caused by this product.	
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.	
Methane (74-82-8)		
Persistence and degradability	The substance is biodegradable. Unlikely to persist. No data available.	
Hydrogen (1333-74-0)		
Persistence and degradability	No ecological damage caused by this product.	
12.3. Bioaccumulative potential		
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.	
Tetrafluoromethane (R14) (75-73-0)		
Log Pow	1.18	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.	
Carbon dioxide (124-38-9)		
BCF fish 1	(no bioaccumulation)	
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0.83		
bioaccumulative potential No ecological damage caused by this product.		
Not applicable for inorganic gases.		
No ecological damage caused by this product.		
Not applicable for inorganic gases.		
No ecological damage caused by this product.		
Not applicable for inorganic gases.		
No ecological damage caused by this product.		
Not applicable for gas mixtures		
Not applicable for gas mixtures		
Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.		
Hydrogen (1333-74-0)		
(no bioaccumulation expected)		
Not applicable for inorganic gases.		
No ecological damage caused by this product.		
Because of its high volatility, the product is unlikely to cause ground or water pollution.		
Because of its high volatility, the product is unlikely to cause ground or water pollution.		
No ecological damage caused by this product.		
No ecological damage caused by this product.		
No ecological damage caused by this product.		
No ecological damage caused by this product.		
No data available.		
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**

ocorrow 14. mansport information	
Department of Transportation (DOT) In accordance with DOT	
Transport document description	: UN1956 Compressed gas, n.o.s.
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)	
DOT Quantity Limitations Cargo aircraft only (49 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.
Additional 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
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 Monoxide (630-08-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Tetrafluoromethane (R14) (75-73-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
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
Nitrogen (7727-37-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Oxygen (7782-44-7)
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
Hydrogen (1333-74-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

CANADA		
Carbon Monoxide (630-08-0)		
Listed on the Canadian DSL (Domestic Sustance	s 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 A - Very toxic material causing other toxic effects	
Tetrafluoromethane (R14) (75-73-0)		
Listed on the Canadian DSL (Domestic Sustance	s List)	
WHMIS Classification	Class A - Compressed Gas	
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 Sustance	s List)	
WHMIS Classification	Class A - Compressed Gas	
Nitrogen (7727-37-9)		
Listed on the Canadian DSL (Domestic Sustance	s List)	
WHMIS Classification	Class A - Compressed Gas	
Oxygen (7782-44-7)		
Listed on the Canadian DSL (Domestic Sustance	s List)	
WHMIS Classification	Class A - Compressed Gas Class C - Oxidizing Material	
Methane (74-82-8)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas	
Hydrogen (1333-74-0)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas	

#### **EU-Regulations**

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#### Carbon Monoxide (630-08-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Tetrafluoromethane (R14) (75-73-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Carbon dioxide (124-38-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Helium (7440-59-7)

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)

#### Oxygen (7782-44-7)

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)

#### Hydrogen (1333-74-0)

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 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)
Tetrafluoromethane (R14) (75-73-0)
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)
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)
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)

Oxygen (7782-44-7)	
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)	
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)	
Hydrogen (1333-74-0)	
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 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	No significant risk level (NSRL)
No	Yes	No	No	

Carbon Manavida (C20.00.0)
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
Tetrafluoromethane (R14) (75-73-0)
U.S New Jersey - Right to Know Hazardous Substance List
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
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
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
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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#### Hydrogen (1333-74-0)

- 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

# 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)	Acute toxicity (inhalation:gas) Category 3
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
Repr. 1A	Reproductive toxicity Category 1A
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H220	Extremely flammable gas
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H331	Toxic if inhaled
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.