

Material Safety Data Sheet



Flammable Gas Mixture: 1 Butene / 1,3 Butadiene / Acetylene / Carbon Dioxide / Carbon Monoxide / Cis-2-Butene / Ethane / Ethylene / Hydrogen / Isobutane / Isobutylene / Isopentane / Methane / N Butane / Nitrogen / Oxygen / Propane / Propylene / Trans-2-Butene

Section 1. Chemical product and company identification

- Product Name** : Flammable Gas Mixture: 1 Butene / 1,3 Butadiene / Acetylene / Carbon Dioxide / Carbon Monoxide / Cis-2-Butene / Ethane / Ethylene / Hydrogen / Isobutane / Isobutylene / Isopentane / Methane / N Butane / Nitrogen / Oxygen / Propane / Propylene / Trans-2-Butene
- Supplier** : AIRGAS INC., on behalf of its subsidiaries
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253
- Product use** : Synthetic/Analytical chemistry.
- MSDS#** : 007575
- Date of Preparation/Revision** : **9/28/2007.**
- In case of emergency** : 1-866-734-3438

Section 2. Hazards identification

- Physical state** : Gas.
- Emergency overview** : Warning!
CANCER HAZARD
CONTAINS MATERIAL WHICH CAN CAUSE CANCER
FLAMMABLE GAS.
CONTENTS UNDER PRESSURE.
HARMFUL IF INHALED.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
LUNGS, CARDIOVASCULAR SYSTEM, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.
VAPOR MAY CAUSE FLASH FIRE.
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: BLOOD, NERVOUS SYSTEM, REPRODUCTIVE SYSTEM, MUCOUS MEMBRANES, HEART, RESPIRATORY TRACT, MUSCLE TISSUE.
Avoid contact with skin and clothing. Avoid breathing gas. Keep away from heat, sparks and flame. Do not puncture or incinerate container. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Risk of cancer depends on duration and level of exposure.
Contact with rapidly expanding gases can cause frostbite.
- Routes of entry** : Inhalation,Dermal,Eyes
- Potential acute health effects**
- Eyes** : Moderately irritating to the eyes.
- Skin** : Moderately irritating to the skin.
- Inhalation** : Toxic by inhalation. Moderately irritating to the respiratory system.
- Ingestion** : Ingestion is not a normal route of exposure for gases
- Potential chronic health effects** : **CARCINOGENIC EFFECTS** Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [propylene]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [ethylene]. Classified 1 (Known To Be Human Carcinogens.) by NTP, + (Proven.) by NIOSH, 1 (Proven for human.) by European Union [1,3-butadiene]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [1,3-butadiene].
MUTAGENIC EFFECTS Classified 2 by European Union [1,3-butadiene].
TERATOGENIC EFFECTS: Not available.

Flammable Gas Mixture: 1 Butene / 1,3 Butadiene / Acetylene / Carbon Dioxide / Carbon Monoxide / Cis-2-Butene / Ethane / Ethylene / Hydrogen / Isobutane / Isobutylene / Isopentane / Methane / N Butane / Nitrogen / Oxygen / Propane / Propylene / Trans-2-Butene

Medical conditions aggravated by overexposure : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

See toxicological Information (section 11)

Section 3. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% Volume</u>	<u>Exposure limits</u>
Nitrogen	7727-37-9	1 - 81	
Methane	74-82-8	14.4 - 50	ACGIH TLV (United States, 1/2007). TWA: 1000 ppm 8 hour(s).
Propylene	115-07-1	0.05 - 20	ACGIH TLV (United States, 1/2005). TWA: 500 ppm 8 hour(s). Form: All forms TWA: 500 ppm 8 hour(s).
Ethylene	74-85-1	0.02 - 20	ACGIH TLV (United States, 1/2007). TWA: 200 ppm 8 hour(s).
Carbon Dioxide	124-38-9	0.1 - 10	ACGIH TLV (United States, 1/2006). STEL: 54000 mg/m ³ 65534 times per shift, 15 minute(s). STEL: 30000 ppm 65534 times per shift, 15 minute(s). TWA: 9000 mg/m ³ 65534 times per shift, 8 hour(s). TWA: 5000 ppm 65534 times per shift, 8 hour(s). NIOSH REL (United States, 12/2001). STEL: 54000 mg/m ³ 65534 times per shift, 15 minute(s). STEL: 30000 ppm 65534 times per shift, 15 minute(s). TWA: 9000 mg/m ³ 65534 times per shift, 10 hour(s). TWA: 5000 ppm 65534 times per shift, 10 hour(s). OSHA PEL (United States, 11/2006). TWA: 9000 mg/m ³ 65534 times per shift, 8 hour(s). TWA: 5000 ppm 65534 times per shift, 8 hour(s).
Hydrogen	1333-74-0	1 - 10	
Ethane	74-84-0	0.1 - 7	ACGIH TLV (United States, 1/2007). TWA: 1000 ppm 8 hour(s).
Propane	74-98-6	0.1 - 5	ACGIH TLV (United States, 1/2007). TWA: 1000 ppm 8 hour(s). NIOSH REL (United States, 12/2001). TWA: 1000 ppm 10 hour(s). OSHA PEL (United States, 11/2006). TWA: 1000 ppm 8 hour(s). NIOSH REL (United States, 12/2001). TWA: 1800 mg/m ³ 10 hour(s). OSHA PEL (United States, 11/2006). TWA: 1800 mg/m ³ 8 hour(s).
Acetylene	74-86-2	1 - 3	NIOSH REL (United States, 12/2001). CEIL: 2500 ppm CEIL: 2662 mg/m ³
1-Butene	106-98-9	1 - 2	
Isobutane	75-28-5	0.01 - 2	ACGIH TLV (United States, 1/2007). TWA: 1000 ppm 8 hour(s). NIOSH REL (United States, 12/2001). TWA: 800 ppm 10 hour(s). TWA: 1900 mg/m ³ 10 hour(s).
1,3-Butadiene	106-99-0	0.0001 - 2	ACGIH TLV (United States, 1/2007). TWA: 2 ppm 8 hour(s).

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			TWA: 2 ppm 8 hour(s).
			OSHA PEL (United States, 11/2006).
			STEL: 5 ppm 15 minute(s).
			TWA: 1 ppm 8 hour(s).
			ACGIH TLV (United States, 1/2007).
			TWA: 4.4 mg/m ³ 8 hour(s).
trans-2-butene	624-64-6	1 - 2	
Isobutylene	115-11-7	0.1 - 2	
			Ministry of Labor and Social Policy and Ministry of Health (Bulgaria, 9/2006).
			TWA: 100 mg/m ³ 8 hour(s).
			Del Lietuvos Higienos Normos (Lithuania, 12/2001).
			TWA: 100 mg/m ³ 8 hour(s).
			ACGIH TLV (United States, 1/2007).
n-Butane	106-97-8	0.01 - 2	
			TWA: 1000 ppm 8 hour(s).
			NIOSH REL (United States, 12/2001).
			TWA: 800 ppm 10 hour(s).
			TWA: 1900 mg/m ³ 10 hour(s).
			ACGIH TLV (United States, 1/2007).
			TWA: 600 ppm 8 hour(s).
Isopentane	78-78-4	0.01 - 2	
cis-2-Butene	590-18-1	1 - 2	
Carbon Monoxide	630-08-0	0.0025 - 2	
			ACGIH TLV (United States, 1/2007).
			TWA: 25 ppm 8 hour(s).
			NIOSH REL (United States, 12/2001).
			CEIL: 200 ppm
			TWA: 35 ppm 10 hour(s).
			OSHA PEL (United States, 11/2006).
			TWA: 50 ppm 8 hour(s).
			ACGIH TLV (United States, 1/2007).
			TWA: 29 mg/m ³ 8 hour(s).
			NIOSH REL (United States, 12/2001).
			CEIL: 229 mg/m ³
			TWA: 40 mg/m ³ 10 hour(s).
			OSHA PEL (United States, 11/2006).
			TWA: 55 mg/m ³ 8 hour(s).

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training. If fumes are still suspected to be present, the rescuer should wear an appropriate mask or a self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Frostbite** : Try to warm up the frozen tissues and seek medical attention.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

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Section 5. Fire fighting measures

- Flammability of the product** : Flammable.
- Auto-ignition temperature** : The lowest known value is 286.85°C (548.3°F) (butane).
- Flash point** : The lowest known value is Closed cup: -188.15°C (-306.7°F). (methane)
- Flammable limits** : The greatest known range is Lower: 2.5% Upper: 82% (acetylene)
- Products of combustion** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).
- Fire hazards in presence of various substances** : Extremely flammable in presence of open flames, sparks and static discharge, of oxidizing materials.
Flammable in presence of heat, of reducing materials, of combustible materials, of organic materials.
- Fire fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemicals, or CO₂.
- If involved in fire, shut off flow immediately if it can be done without risk. Apply water from a safe distance to cool container and protect surrounding area.
Extremely flammable. Gas may accumulate in confined areas, travel considerable distance to source of ignition and flash back causing fire or explosion.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire, minimize ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Do not puncture or incinerate container. Wash thoroughly after handling. High pressure gas. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. The engineering controls also need to keep gas, vapor or dust concentrations below any explosive limits. Use explosion-proof ventilation equipment.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93

Hands : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Personal protection in case of a large spill : Full chemical resistant suit and self-contained breathing apparatus only by trained and authorized persons.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight : Not applicable.

Molecular formula : Not applicable.

Boiling/condensation point : Not available.

Melting/freezing point : -105°C (-157°F) based on data for: (E)-but-2-ene. Weighted average: -192.91°C (-315.2°F)

Critical temperature : The lowest known value is -240.1°C (-400.2°F) (hydrogen).

Vapor density : The highest known value is 2 (Air = 1) (isobutane). Weighted average: 0.98 (Air = 1)

Specific Volume (ft³/lb) : Not applicable.

Gas Density (lb/ft³) : Weighted average: 0.02

Section 10. Stability and reactivity

Stability and reactivity : Unstable. (1,3-butadiene)

Conditions of instability : Under normal conditions of storage and use, hazardous polymerization will not occur. Unstable. (at high temperature) (1,3-butadiene)

Incompatibility with various substances : Extremely reactive or incompatible with oxidizing agents. Reactive with reducing agents, combustible materials. Slightly reactive to reactive with acids, alkalis.

Section 11. Toxicological information

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
1,3-Butadiene	LD50	5480 mg/kg	Oral	Rat
	LD50	3210 mg/kg	Oral	Mouse
Carbon Monoxide	LC50	3760 ppm (1 hour(s))	Inhalation	Rat
	LC50	2444 ppm (4 hour(s))	Inhalation	Mouse

Chronic effects on humans : **CARCINOGENIC EFFECTS** Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [propylene]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [ethylene]. Classified 1 (Known To Be Human Carcinogens.) by NTP, + (Proven.) by NIOSH, 1 (Proven for human.) by European Union [1,3-butadiene]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [1,3-butadiene]. **MUTAGENIC EFFECTS** Classified 2 by European Union [1,3-butadiene]. Contains material which causes damage to the following organs: lungs, cardiovascular system, skin, central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: blood, the nervous system, the reproductive system, mucous membranes, heart, upper respiratory tract, muscle tissue.

Other toxic effects on humans : No specific information is available in our database regarding the other toxic effects of this material for humans.

Specific effects

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- Carcinogenic effects** : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenic effects** : No known significant effects or critical hazards.
- Reproduction toxicity** : No known significant effects or critical hazards.




Section 12. Ecological information

- Products of degradation** : These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...).
- Toxicity of the products of biodegradation** : The products of degradation are less toxic than the product itself.
- Environmental fate** : Not available.
- Environmental hazards** : No known significant effects or critical hazards.
- Toxicity to the environment** : Not available.

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation. Return cylinders with residual product to Airgas, Inc. Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1954	COMPRESSED GAS, FLAMMABLE, N.O.S.	2.1	Not applicable (gas).		-
TDG Classification	UN1954	COMPRESSED GAS, FLAMMABLE, N.O.S.	2.1	Not applicable (gas).		<p>Explosive Limit and Limited Quantity Index 0.125</p> <p>ERAP Index 3000</p> <p>Passenger Carrying Ship Index Forbidden</p> <p>Passenger Carrying Road or Rail Index Forbidden</p>
Mexico Classification	UN1954	COMPRESSED GAS, FLAMMABLE, N.O.S.	2.1	Not applicable (gas).		-

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Section 15. Regulatory information

United States

- U.S. Federal regulations** : TSCA 8(b) inventory: 1,3-butadiene; but-1-ene; isobutane; carbon dioxide; 2-methylpropene; oxygen; nitrogen; methane; propylene; ethylene; hydrogen; ethane; acetylene; (E)-but-2-ene; propane; butane; isopentane; (Z)-but-2-ene; carbon monoxide
- SARA 302/304/311/312 extremely hazardous substances: No products were found.
- SARA 302/304 emergency planning and notification: No products were found.
- SARA 302/304/311/312 hazardous chemicals: 1,3-butadiene; isobutane; carbon dioxide; 2-methylpropene; oxygen; nitrogen; methane; propylene; ethylene; hydrogen; ethane; acetylene; propane; butane; isopentane; carbon monoxide
- SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 1,3-butadiene: Fire hazard, reactive, Sudden Release of Pressure, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; isobutane: Fire hazard, Sudden Release of Pressure; carbon dioxide: Sudden Release of Pressure, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; 2-methylpropene: Fire hazard, Sudden Release of Pressure; oxygen: Fire hazard, Sudden Release of Pressure, Delayed (Chronic) Health Hazard; nitrogen: Sudden Release of Pressure; methane: Fire hazard, Sudden Release of Pressure; propylene: Fire hazard, Sudden Release of Pressure; ethylene: Fire hazard, reactive, Sudden Release of Pressure, Delayed (Chronic) Health Hazard; hydrogen: Fire hazard, Sudden Release of Pressure; ethane: Fire hazard, Sudden Release of Pressure, Immediate (Acute) Health Hazard; acetylene: Fire hazard, reactive, Sudden Release of Pressure, Immediate (Acute) Health Hazard; propane: Fire hazard, Sudden Release of Pressure; butane: Fire hazard, Sudden Release of Pressure; isopentane: Fire hazard; carbon monoxide: Fire hazard, Sudden Release of Pressure, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
- Clean Water Act (CWA) 307: No products were found.
- Clean Water Act (CWA) 311: No products were found.
- Clean air act (CAA) 112 accidental release prevention: 1,3-butadiene; but-1-ene; isobutane; 2-methylpropene; methane; propylene; ethylene; hydrogen; ethane; acetylene; (E)-but-2-ene; propane; butane; isopentane; (Z)-but-2-ene
- Clean air act (CAA) 112 regulated flammable substances: 1,3-butadiene; but-1-ene; isobutane; 2-methylpropene; methane; propylene; ethylene; hydrogen; ethane; acetylene; (E)-but-2-ene; propane; butane; isopentane; (Z)-but-2-ene
- Clean air act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	Propylene	115-07-1	0.05 - 20
	Ethylene	74-85-1	0.02 - 20
	1,3-Butadiene	106-99-0	0.0001 - 2
Supplier notification	Propylene	115-07-1	0.05 - 20
	Ethylene	74-85-1	0.02 - 20
	1,3-Butadiene	106-99-0	0.0001 - 2

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

- State regulations** : Pennsylvania RTK: 1,3-butadiene: (special hazard, environmental hazard, generic environmental hazard); but-1-ene: (generic environmental hazard); isobutane: (generic environmental hazard); carbon dioxide: (generic environmental hazard); 2-methylpropene: (generic environmental hazard); oxygen: (generic environmental hazard); nitrogen: (generic environmental hazard); methane: (generic environmental hazard); propylene: (environmental hazard, generic environmental hazard); ethylene: (environmental hazard, generic environmental hazard); hydrogen: (generic environmental hazard); ethane: (generic environmental hazard); acetylene: (generic environmental hazard); (E)-but-2-ene: (generic environmental hazard); propane: (generic environmental hazard); butane: (generic environmental hazard); isopentane: (generic environmental hazard); (Z)-but-2-ene: (generic environmental hazard); carbon monoxide: (environmental hazard, generic environmental hazard)
- Massachusetts RTK: 1,3-butadiene; but-1-ene; isobutane; carbon dioxide;

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2-methylpropene; oxygen; nitrogen; methane; propylene; ethylene; hydrogen; ethane; acetylene; (E)-but-2-ene; propane; butane; isopentane; (Z)-but-2-ene; carbon monoxide
 New Jersey: 1,3-butadiene; isobutane; carbon dioxide; 2-methylpropene; oxygen; nitrogen; methane; propylene; ethylene; hydrogen; ethane; acetylene; propane; butane; isopentane; carbon monoxide

California prop. 65

: **WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name

	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
1,3-Butadiene	Yes.	Yes.	Yes.	No.
Carbon Monoxide	No.	Yes.	No.	No.

Canada

WHMIS (Canada)

: Class A: Compressed gas.
 Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
 Class D-2A: Material causing other toxic effects (VERY TOXIC).
 Class D-2B: Material causing other toxic effects (TOXIC).
 CEPA DSL: 1,3-butadiene; but-1-ene; isobutane; carbon dioxide; 2-methylpropene; oxygen; nitrogen; methane; propylene; ethylene; hydrogen; ethane; acetylene; (E)-but-2-ene; propane; butane; isopentane; (Z)-but-2-ene; carbon monoxide

Section 16. Other information

United States

Label Requirements

: CANCER HAZARD
 CONTAINS MATERIAL WHICH CAN CAUSE CANCER
 FLAMMABLE GAS.
 CONTENTS UNDER PRESSURE.
 HARMFUL IF INHALED.
 CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: LUNGS, CARDIOVASCULAR SYSTEM, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.
 VAPOR MAY CAUSE FLASH FIRE.
 MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
 CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: BLOOD, NERVOUS SYSTEM, REPRODUCTIVE SYSTEM, MUCOUS MEMBRANES, HEART, RESPIRATORY TRACT, MUSCLE TISSUE.

Canada

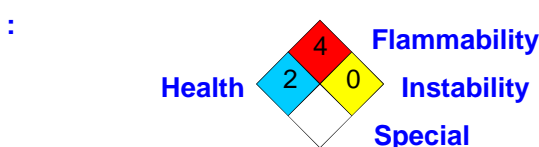
Label Requirements

: Class A: Compressed gas.
 Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
 Class D-2A: Material causing other toxic effects (VERY TOXIC).
 Class D-2B: Material causing other toxic effects (TOXIC).

Hazardous Material Information System (U.S.A.)

Health	*	2
Fire hazard		4
Reactivity		0
Personal protection		C

National Fire Protection Association (U.S.A.)



Notice to reader

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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.