

Material Safety Data Sheet



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

Section 1. Chemical product and company identification

Product Name : Flammable Gas Mixture: 1 Butene / 1,3 Butadiene / Acetylene / Carbon Monoxide / Cis-2-Butene / Ethane / Ethylene / Helium / Hydrogen / Isobutane / Isopentane / Methane / N Butane / Nitrogen / 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# : 002919

Date of Preparation/Revision : **2/7/2008.**

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.
VAPOR MAY CAUSE FLASH FIRE.
CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING
ORGANS: BLOOD, LUNGS, NERVOUS SYSTEM, REPRODUCTIVE SYSTEM,
MUCOUS MEMBRANES, HEART, CARDIOVASCULAR SYSTEM, RESPIRATORY
TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA, MUSCLE
TISSUE.
Avoid breathing gas. Keep away from heat, sparks and flame. Do not puncture or
incinerate container. Keep container closed. Use only with adequate ventilation. Risk of
cancer depends on duration and level of exposure.
Contact with rapidly expanding gases can cause frostbite.

Routes of entry : Inhalation

Potential acute health effects

Eyes : Slightly irritating to the eyes.

Skin : Slightly irritating to the skin.

Inhalation : Toxic by inhalation.

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.

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)

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Section 3. Composition, Information on Ingredients

| <u>Name</u> | <u>CAS number</u> | <u>% Volume</u> | <u>Exposure limits</u> |
|-----------------|-------------------|-----------------|--|
| Hydrogen | 1333-74-0 | 5.8 - 99 | |
| Nitrogen | 7727-37-9 | 1 - 90 | |
| Helium | 7440-59-7 | 1 - 50 | |
| Methane | 74-82-8 | 0.1 - 50 | ACGIH TLV (United States, 1/2007). TWA: 1000 ppm 8 hour(s). |
| Ethane | 74-84-0 | 0.1 - 50 | ACGIH TLV (United States, 1/2007). TWA: 1000 ppm 8 hour(s). |
| Propylene | 115-07-1 | 1 - 20 | ACGIH TLV (United States, 1/2005). TWA: 500 ppm 8 hour(s). Form: All forms TWA: 500 ppm 8 hour(s). |
| Propane | 74-98-6 | 0.1 - 20 | 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). |
| Ethylene | 74-85-1 | 1 - 20 | ACGIH TLV (United States, 1/2007). TWA: 200 ppm 8 hour(s). |
| n-Butane | 106-97-8 | 0.08 - 10 | 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). |
| Carbon Monoxide | 630-08-0 | 0.0025 - 10 | 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). |
| 1,3-Butadiene | 106-99-0 | 0.0001 - 5 | ACGIH TLV (United States, 1/2007). 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). |
| cis-2-Butene | 590-18-1 | 0.1 - 5 | |
| 1-Butene | 106-98-9 | 0.1 - 5 | |
| Isopentane | 78-78-4 | 0.06 - 5 | ACGIH TLV (United States, 1/2007). TWA: 600 ppm 8 hour(s). |
| trans-2-butene | 624-64-6 | 0.1 - 5 | |
| Acetylene | 74-86-2 | 0.1 - 5 | NIOSH REL (United States, 12/2001). CEIL: 2500 ppm CEIL: 2662 mg/m ³ |
| Isobutane | 75-28-5 | 0.08 - 5 | ACGIH TLV (United States, 1/2007). TWA: 1000 ppm 8 hour(s). |

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NIOSH REL (United States, 12/2001).

TWA: 800 ppm 10 hour(s).

TWA: 1900 mg/m³ 10 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 if irritation occurs.
- 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.

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.
Highly flammable in presence of heat.
- 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** : 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. 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.

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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.

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 : A self-contained breathing apparatus should be used to avoid inhalation of the product.

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: -210.68°C (-347.2°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) (butane). Weighted average: 0.77 (Air = 1)

Specific Volume (ft³/lb) : Not applicable.

Gas Density (lb/ft³) : Weighted average: 0.03

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 : Reactive with oxidizing agents. Slightly reactive to reactive with acids, alkalis.

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Section 11. Toxicological information

| <u>Ingredient name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|------------------------|-------------|----------------------|--------------|----------------|
| Carbon Monoxide | LC50 | 3760 ppm (1 hour(s)) | Inhalation | Rat |
| | LC50 | 2444 ppm (4 hour(s)) | Inhalation | Mouse |
| 1,3-Butadiene | LD50 | 5480 mg/kg | Oral | Rat |
| | LD50 | 3210 mg/kg | Oral | 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 may cause damage to the following organs: blood, lungs, the nervous system, the reproductive system, mucous membranes, heart, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, 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

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

| <u>Regulatory information</u> | <u>UN number</u> | <u>Proper shipping name</u> | <u>Class</u> | <u>Packing group</u> | <u>Label</u> | <u>Additional information</u> |
|-------------------------------|------------------|-----------------------------------|--------------|-----------------------|---|-------------------------------|
| DOT Classification | UN1954 | COMPRESSED GAS, FLAMMABLE, N.O.S. | 2.1 | Not applicable (gas). |  | - |
| | | | | | | |

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| | | | | | | |
|------------------------------|--------|-----------------------------------|-----|-----------------------|---|---|
| TDG Classification | UN1954 | COMPRESSED GAS, FLAMMABLE, N.O.S. | 2.1 | Not applicable (gas). |  | <u>Explosive Limit and Limited Quantity Index</u> 0.125 <u>ERAP Index</u> 3000 <u>Passenger Carrying Ship Index</u> Forbidden <u>Passenger Carrying Road or Rail Index</u> Forbidden |
| Mexico Classification | UN1954 | COMPRESSED GAS, FLAMMABLE, N.O.S. | 2.1 | Not applicable (gas). |  | - |

Section 15. Regulatory information

United States

- U.S. Federal regulations** : TSCA 8(b) inventory: helium; methane; propane; hydrogen; ethylene; propylene; nitrogen; butane; ethane; (E)-but-2-ene; 1,3-butadiene; (Z)-but-2-ene; but-1-ene; isopentane; carbon monoxide; acetylene; isobutane
- 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: helium; methane; propane; hydrogen; ethylene; propylene; nitrogen; butane; ethane; 1,3-butadiene; isopentane; carbon monoxide; acetylene; isobutane
- SARA 311/312 MSDS distribution - chemical inventory - hazard identification: helium: Sudden Release of Pressure; methane: Fire hazard, Sudden Release of Pressure; propane: Fire hazard, Sudden Release of Pressure; hydrogen: Fire hazard, Sudden Release of Pressure; ethylene: Fire hazard, reactive, Sudden Release of Pressure, Delayed (Chronic) Health Hazard; propylene: Fire hazard, Sudden Release of Pressure; nitrogen: Sudden Release of Pressure; butane: Fire hazard, Sudden Release of Pressure; ethane: Fire hazard, Sudden Release of Pressure, Immediate (Acute) Health Hazard; 1,3-butadiene: Fire hazard, reactive, Sudden Release of Pressure, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; isopentane: Fire hazard; carbon monoxide: Fire hazard, Sudden Release of Pressure, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; acetylene: Fire hazard, reactive, Sudden Release of Pressure, Immediate (Acute) Health Hazard; isobutane: Fire hazard, Sudden Release of Pressure
- 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: methane; propane; hydrogen; ethylene; propylene; butane; ethane; (E)-but-2-ene; 1,3-butadiene; (Z)-but-2-ene; but-1-ene; isopentane; acetylene; isobutane
- Clean air act (CAA) 112 regulated flammable substances: methane; propane; hydrogen; ethylene; propylene; butane; ethane; (E)-but-2-ene; 1,3-butadiene; (Z)-but-2-ene; but-1-ene; isopentane; acetylene; isobutane
- Clean air act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

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

| | <u>Product name</u> | <u>CAS number</u> | <u>Concentration</u> |
|--|---------------------|-------------------|----------------------|
| Form R - Reporting requirements | Ethylene | 74-85-1 | 1 - 20 |
| | Propylene | 115-07-1 | 1 - 20 |
| | 1,3-Butadiene | 106-99-0 | 0.0001 - 5 |
| Supplier notification | Ethylene | 74-85-1 | 1 - 20 |
| | Propylene | 115-07-1 | 1 - 20 |
| | 1,3-Butadiene | 106-99-0 | 0.0001 - 5 |

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: helium: (generic environmental hazard); methane: (generic environmental hazard); propane: (generic environmental hazard); hydrogen: (generic environmental hazard); ethylene: (environmental hazard, generic environmental hazard); propylene: (environmental hazard, generic environmental hazard); nitrogen: (generic environmental hazard); butane: (generic environmental hazard); ethane: (generic environmental hazard); (E)-but-2-ene: (generic environmental hazard); 1,3-butadiene: (special hazard, environmental hazard, generic environmental hazard); (Z)-but-2-ene: (generic environmental hazard); but-1-ene: (generic environmental hazard); isopentane: (generic environmental hazard); carbon monoxide: (environmental hazard, generic environmental hazard); acetylene: (generic environmental hazard); isobutane: (generic environmental hazard)
- Massachusetts RTK: helium; methane; propane; hydrogen; ethylene; propylene; nitrogen; butane; ethane; (E)-but-2-ene; 1,3-butadiene; (Z)-but-2-ene; but-1-ene; isopentane; carbon monoxide; acetylene; isobutane
- New Jersey: helium; methane; propane; hydrogen; ethylene; propylene; nitrogen; butane; ethane; 1,3-butadiene; isopentane; carbon monoxide; acetylene; isobutane
- 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.

| <u>Ingredient name</u> | <u>Cancer</u> | <u>Reproductive</u> | <u>No significant risk level</u> | <u>Maximum acceptable dosage level</u> |
|------------------------|---------------|---------------------|----------------------------------|--|
| Carbon Monoxide | No. | Yes. | No. | No. |
| 1,3-Butadiene | Yes. | Yes. | Yes. | 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: helium; methane; propane; hydrogen; ethylene; propylene; nitrogen; butane; ethane; (E)-but-2-ene; 1,3-butadiene; (Z)-but-2-ene; but-1-ene; isopentane; carbon monoxide; acetylene; isobutane

Section 16. Other information

United States

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

Canada

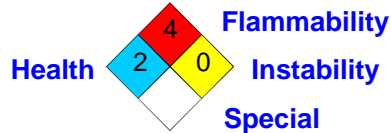
Flammable Gas Mixture: 1 Butene / 1,3 Butadiene / Acetylene / Carbon Monoxide / Cis-2-Butene / Ethane / Ethylene / Helium / Hydrogen / Isobutane / Isopentane / Methane / N Butane / Nitrogen / Propane / Propylene / Trans-2-Butene

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

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.