# SECTION: 1. Product and company identification

## 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Ethylene</td>
</tr>
<tr>
<td>CAS No</td>
<td>74-85-1</td>
</tr>
<tr>
<td>Formula</td>
<td>C2H4</td>
</tr>
<tr>
<td>Other means of identification</td>
<td>Ethene, Acetene, Olefiant Gas, refrigerant gas R1150</td>
</tr>
</tbody>
</table>

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

| Use of the substance/mixture | Industrial use. Use as directed. |

## 1.3. Details of the supplier of the safety data sheet

Praxair, Inc.
10 Riverview Drive
Danbury, CT 06810 - USA
T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146
www.praxair.com

## 1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency number</th>
<th>Onsite Emergency: 1-800-645-4633</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CHEMTREC, 24hr/day 7days/week</td>
</tr>
<tr>
<td></td>
<td>— Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887</td>
</tr>
<tr>
<td></td>
<td>(collect calls accepted, Contract 17729)</td>
</tr>
</tbody>
</table>

# SECTION 2: Hazard identification

## 2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>GHS-US classification</th>
<th>Flam. Gas 1 H220</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liquefied gas H280</td>
</tr>
<tr>
<td></td>
<td>STOT SE 3 H336</td>
</tr>
</tbody>
</table>

## 2.2. Label elements

### GHS-US labeling

<table>
<thead>
<tr>
<th>Hazard pictograms (GHS-US)</th>
<th>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS02</td>
<td></td>
</tr>
<tr>
<td>GHS04</td>
<td></td>
</tr>
<tr>
<td>GHS07</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal word (GHS-US)</th>
<th>: DANGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard statements (GHS-US)</td>
<td>H220 - EXREMELY FLAMMABLE GAS</td>
</tr>
<tr>
<td></td>
<td>H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED</td>
</tr>
<tr>
<td></td>
<td>H336 - MAY CAUSE DROWSINESS OR DIZZINESS</td>
</tr>
<tr>
<td></td>
<td>OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION</td>
</tr>
<tr>
<td></td>
<td>CGA-HG04 - MAY FORM EXPLOSIVE MIXTURES WITH AIR</td>
</tr>
<tr>
<td></td>
<td>CGA-HG01 - MAY CAUSE FROSTBITE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Precautionary statements (GHS-US)</th>
<th>: P202 - Do not handle until all safety precautions have been read and understood</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P210 - Keep away from Heat, Open flames, Sparks, Hot surfaces. - No smoking</td>
</tr>
<tr>
<td></td>
<td>P261 - Avoid breathing gas</td>
</tr>
<tr>
<td></td>
<td>P262 - Do not get in eyes, on skin, or on clothing</td>
</tr>
<tr>
<td></td>
<td>P271+P403 - Use and store only outdoors or in a well-ventilated place</td>
</tr>
<tr>
<td></td>
<td>P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely</td>
</tr>
<tr>
<td></td>
<td>P381 - Eliminate all ignition sources if safe to do so</td>
</tr>
<tr>
<td></td>
<td>CGA-PG05 - Use a back flow preventive device in the piping</td>
</tr>
</tbody>
</table>
Ethylene
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CGA-PG12 - Do not open valve until connected to equipment prepared for use
CGA-PG06 - Close valve after each use and when empty
CGA-PG11 - Never put cylinders into unventilated areas of passenger vehicles
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)

2.3. Other hazards
Other hazards not contributing to the classification: Contact with liquid may cause cold burns/frostbite.

2.4. Unknown acute toxicity (GHS US)
No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene (Main constituent)</td>
<td>(CAS No) 74-85-1</td>
<td>100</td>
</tr>
</tbody>
</table>

3.2. Mixture
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.

First-aid measures after skin contact: The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

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
No additional information available

4.3. Indication of any immediate medical attention and special treatment needed
None. Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Carbon dioxide, Dry chemical, Water spray or fog.

5.2. Special hazards arising from the substance or mixture

Fire hazard: EXTREMELY FLAMMABLE GAS. If venting or leaking gas catches fire, do not extinguish flames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device.

Explosion hazard: EXTREMELY FLAMMABLE GAS. Forms explosive mixtures with air and oxidizing agents.

Reactivity: No reactivity hazard other than the effects described in sub-sections below.
5.3. Advice for firefighters

Firefighting instructions: DANGER: FLAMMABLE LIQUID AND VAPOR. Evacuate all personnel from danger area. Use self-contained breathing apparatus. Immediately cool surrounding containers with water spray from maximum distance, taking care not to extinguish flames. Avoid spreading burning liquid with water. Remove ignition sources if safe to do so. If flames are accidentally extinguished, explosive reignition may occur. Reduce vapors with water spray or fog. Stop flow of liquid if safe to do so, while continuing cooling water spray. Remove all containers from area of fire if safe to do so. Allow fire to burn out. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1919 Subpart L - Fire Protection.

Special protective equipment for fire fighters: Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.

Other information: Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: DANGER: Flammable, liquefied gas. FORMS EXPLOSIVE MIXTURES WITH AIR. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Shut off flow if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Try to stop release. Reduce vapor with fog or fine water spray. Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment

Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.
### Conditions for safe storage, including any incompatibilities

**Storage conditions**

Store only where temperature will not exceed 125°F (52°C). Post “No Smoking/No Open Flames” signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g. NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16.

**OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE:** When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

### Specific end use(s)

None.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<table>
<thead>
<tr>
<th>Ethylene (74-85-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Control parameters</strong></td>
</tr>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>USA OSHA</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls

**Appropriate engineering controls**: Use an explosion-proof local exhaust system. Local exhaust and general ventilation must be adequate to meet exposure standards. MECHANICAL (GENERAL): Inadequate - Use only in a closed system. Use explosion proof equipment and lighting.

**Eye protection**: Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during cylinder changeout or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133.

**Skin and body protection**: Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138.

**Respiratory protection**: When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA). Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.

**Thermal hazard protection**: Wear cold insulating gloves when transfilling or breaking transfer connections.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**Physical state**: Gas

**Appearance**: Colorless gas.

**Molecular mass**: 28 g/mol

**Color**: Colorless.

**Odor**: Sweetish.

**Odor threshold**: No data available

**pH**: Not applicable.
## Relative evaporation rate (butyl acetate=1)
- No data available

## Relative evaporation rate (ether=1)
- Not applicable.

## Melting point
- 

## Freezing point
- No data available

## Boiling point
- -102.4 °C (at 700 mmHg)

## Flash point
- 

## Critical temperature
- 9.6 °C

## Auto-ignition temperature
- 450 °C

## Decomposition temperature
- No data available

## Flammability (solid, gas)
- 2.7 - 36 vol %

## Vapor pressure
- Not applicable.

## Critical pressure
- 5041 kPa

## Relative vapor density at 20 °C
- No data available

## Relative density
- 0.57

## Density
- 0.974 g/cm³ (at 15 °C)

## Relative gas density
- 0.975

## Solubility
- Water: 130 mg/l

## Log Pow
- 1.13

## Log Kow
- Not applicable.

## Viscosity, kinematic
- Not applicable.

## Viscosity, dynamic
- Not applicable.

## Explosive properties
- Not applicable.

## Oxidizing properties
- None.

## Explosion limits
- No data available

### 9.2. Other information

**Gas group**: Liquefied gas

**Additional information**: None

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
- No reactivity hazard other than the effects described in sub-sections below.

#### 10.2. Chemical stability
- Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions
- May occur.

#### 10.4. Conditions to avoid
- May decompose violently at high temperature and/or pressure or in the presence of a catalyst.

#### 10.5. Incompatible materials

#### 10.6. Hazardous decomposition products
- Thermal decomposition may produce: Carbon dioxide. Carbon monoxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**: Not classified

**Skin corrosion/irritation**: Not classified

**pH**: Not applicable.
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Serious eye damage/irritation: Not classified
pH: Not applicable.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

**Ethylene (74-85-1)**
IARC group: 3 - Not classifiable
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): MAY CAUSE DROWSINESS OR DIZZINESS.
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: No known ecological damage caused by this product.

12.2. Persistence and degradability

**Ethylene (74-85-1)**
Persistence and degradability: The substance is biodegradable. Unlikely to persist.

12.3. Bioaccumulative potential

**Ethylene (74-85-1)**
BCF fish 1: 4 - 4.6
Log Pow: 1.13
Log Kow: Not applicable.
Bioaccumulative potential: Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.

12.4. Mobility in soil

**Ethylene (74-85-1)**
Mobility in soil: No data available.
Ecology - soil: Because of its high volatility, the product is unlikely to cause ground or water pollution.

12.5. Other adverse effects
Effect on ozone layer: None
Effect on the global warming: No known effects from this product

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Do not attempt to dispose of residual or unused quantities. Return container to supplier.

SECTION 14: Transport information
In accordance with DOT
Transport document description: UN1038 Ethylene, refrigerated liquid (cryogenic liquid), 2.1
UN-No.(DOT): UN1038
Proper Shipping Name (DOT): Ethylene, refrigerated liquid (cryogenic liquid)
Class (DOT): 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Ethylene Safety Data Sheet P-4598
Date of issue: 01/01/1979  Revision date: 10/17/2016  Supersedes: 06/05/2015

Hazard labels (DOT) : 2.1 - Flammable gas

DOT Special Provisions (49 CFR 172.102) : T75 - When portable tank instruction T75 is referenced in Column (7) of the 172.101 Table, the applicable refrigerated liquefied gases are authorized to be transported in portable tanks in accordance with the requirements of 178.277 of this subchapter
TP5 - For a portable tank used for the transport of flammable refrigerated liquefied gases or refrigerated liquefied oxygen, the maximum rate at which the portable tank may be filled must not exceed the liquid flow capacity of the primary pressure relief system rated at a pressure not exceeding 120 percent of the portable tank's design pressure. For portable tanks used for the transport of refrigerated liquefied helium and refrigerated liquefied atmospheric gas (except oxygen), the maximum rate at which the tank is filled must not exceed the liquid flow capacity of the pressure relief device rated at 130 percent of the portable tank's design pressure. Except for a portable tank containing refrigerated liquefied helium, a portable tank shall have an outage of at least two percent below the inlet of the pressure relief device or pressure control valve, under conditions of incipient opening, with the portable tank in a level attitude. No outage is required for helium

Additional information
Emergency Response Guide (ERG) Number : 115 (UN1038);116P (UN1962)
Other information : No supplementary information available.
Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:
- Ensure there is adequate ventilation.
- Ensure that containers are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.

Transport by sea
UN-No. (IMDG) : 1038
Proper Shipping Name (IMDG) : ETHYLENE, REFRIGERATED LIQUID
Class (IMDG) : 2 - Gases
MFAG-No : 116P

Air transport
UN-No. (IATA) : 1038
Proper Shipping Name (IATA) : Ethylene, refrigerated liquid
Class (IATA) : 2
Civil Aeronautics Law : Gases under pressure/Gases flammable under pressure

SECTION 15: Regulatory information

15.1. US Federal regulations

Ethylene (74-85-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
SARA Section 311/312 Hazard Classes
| Immediate (acute) health hazard |
| Sudden release of pressure hazard |
| Fire hazard |
SARA Section 313 - Emission Reporting : 1.0 %
All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.
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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene</td>
<td>74-85-1</td>
<td>100%</td>
</tr>
</tbody>
</table>

**15.2. International regulations**

**CANADA**

**Ethylene (74-85-1)**

- Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

**Ethylene (74-85-1)**

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

**15.2.2. National regulations**

**Ethylene (74-85-1)**

- 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 INSQ (Mexican National Inventory of Chemical Substances)
- Listed on CICR (Turkish Inventory and Control of Chemicals)

**15.3. US State regulations**

**Ethylene(74-85-1)**

<table>
<thead>
<tr>
<th>State or local regulations</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

- California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

EN (English US)   SDS ID: P-4598   8/9

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SECTION 16: Other information

Other information:

When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product.

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NFPA health hazard:
2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard:
4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

NFPA reactivity:
2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.

HMIS III Rating
Health:
1 Slight Hazard - Irritation or minor reversible injury possible

Flammability:
4 Severe Hazard

Physical:
3 Serious Hazard

SDS US (GHS HazCom 2012) - Praxair

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.