**Section 1 - IDENTIFICATION**

**GHS product identifier**

Cis-2-Butene

**Chemical name**

Cis-2-Butene

**Other means of identification**

(Z)-2-Butene; cis-Butene; cis-Butylene; cis-1,2-Dimethylethylene; cis-2-Butene; (Z)-2-C4H8; Dimethylethylene; (2Z)-2-Butene; 2-Butene, cis-; butene-2,cis

**Product use**

Synthetic/Analytical chemistry.

**Synonym**

(Z)-2-Butene; cis-Butene; cis-Butylene; cis-1,2-Dimethylethylene; cis-2-Butene; (Z)-2-C4H8; Dimethylethylene; (2Z)-2-Butene; 2-Butene, cis-; butene-2,cis

**Supplier’s details**

Electronic Fluorocarbons
3266 Bergey Road
Hatfield PA 19440

**Emergency telephone #**

1-800-535-5053
Outside the US (call collect) 1-352-323-3500

**Section 2 - HAZARDS IDENTIFICATION**

**OSHA/HCS status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture**

FLAMMABLE GASES - Category 1
GASES UNDER PRESSURE - Compressed gas

**GHS label elements**

**Hazard pictograms**

- Flame
- Flammable gas

**Signal word**

Danger

**Hazard statements**

Extremely flammable gas.

May form explosive mixtures with air.

Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation.

**Precautionary statements**

**General**

Read and follow all Safety Data Sheets (SDS’S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Approach suspected leak area with caution.

**Prevention**

Never Put cylinders into unventilated areas of passenger vehicles. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use and store only outdoors or in a well ventilated place.

**Response**

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

**Storage**

Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.
Material Name: Cis-2-Butene

**Disposal**
Not applicable.

**Hazards not otherwise classified**
In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical name</strong></td>
<td>Cis-2-Butene</td>
</tr>
<tr>
<td><strong>Other means of identification</strong></td>
<td>(Z)-2-Butene; cis-Butene; cis-Butylene; cis-1,2-Dimethylethylene; cis-2-Butene; (Z)-2-C4H8; Dimethylethylene; (2Z)-2-Butene; 2-Butene, cis; butene-2,cis</td>
</tr>
</tbody>
</table>

**CAS number/other identifiers**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Z)-but-2-ene</td>
<td>100</td>
<td>590-18-1</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

**Section 4 - FIRST AID MEASURES**

**Description of necessary first aid measures**

**Eye contact**
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact**
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**
As this product is a gas, refer to the inhalation section.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

**Eye contact**
Contact with rapidly expanding gas may cause burns or frostbite.

**Inhalation**
No known significant effects or critical hazards.

**Skin contact**
Contact with rapidly expanding gas may cause burns or frostbite.

**Frostbite**
Try to warm up the frozen tissues and seek medical attention.

**Ingestion**
As this product is a gas, refer to the inhalation section.

**Over-exposure signs/symptoms**

**Eye contact**
No specific data.

**Inhalation**
No specific data.
Safety Data Sheet

Material Name: Cis-2-Butene

Skin contact
   No specific data.
Ingestion
   No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician
   Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments
   No specific treatment.

Protection of first-aiders
   No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

** Section 5 - FIRE FIGHTING MEASURES **

Extinguishing media

Suitable extinguishing media
   Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media
   None known.

Specific hazards arising from the chemical
   Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products
   Decomposition products may include the following materials:
   - carbon dioxide
   - carbon monoxide

Special protective actions for fire-fighters
   Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters
   Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

*** Section 6 - ACCIDENTAL RELEASE MEASURES ***

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
   Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency respondents
   If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions
   Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
**Section 7 - HANDLING AND STORAGE**

**Precautions for safe handling**

**Protective measures**

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. 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.

**Advice on general occupational hygiene**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities**

Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. 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**

**Control parameters**

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Z)-but-2-ene</td>
<td>ACGIH TLV (United States, 3/2012). TWA: 250 ppm 8 hours.</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**
Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection
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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection
Appropriate footwear and any additional skin protection measures 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 protection
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.

** **Section 9 - Physical and Chemical Properties** **

** Appearance 
** Physical state 
Gas. [Compressed gas.]

** Color 
Colorless.

** Molecular weight 
56.11 g/mole

** Molecular formula 
C4-H8

** Boiling/condensation point 
3.7°C (38.7°F)

** Melting/freezing point 
-138.9°C (-218°F) 162.4° C (324.3°F)

** Critical temperature 
C (324.3°F)

** Odor 
Not available.

** Odor threshold 
Not available.

** pH 
Not available.

** Flash point 
Not available.

** Burning time 
Not applicable.

** Burning rate 
Not applicable.

** Evaporation rate 
Not available.

** Flammability (solid, gas) 
Extremely flammable in the presence of the following materials or conditions: oxidizing materials

** Lower and upper explosive (flammable) limits 
Lower: 1.5
Upper: 9%
**Section 10 - STABILITY AND REACTIVITY**

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

The product is stable.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatibility with various substances

Extremely reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization

Under normal conditions of storage and use, hazardous polymerization will not occur.

**Section 11 - TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.
Safety Data Sheet

Material Name: Cis-2-Butene

Reproductive toxicity
Not available.

Teratogenicity
Not available.

**Specific target organ toxicity (single exposure)**
Not available.

**Specific target organ toxicity (repeated exposure)**
Not available.

Aspiration hazard
Not available.

Information on the likely routes of exposure
Not available.

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Contact with rapidly expanding gas may cause burns or frostbite.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Contact with rapidly expanding gas may cause burns or frostbite.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>As this product is a gas, refer to the inhalation section.</td>
</tr>
</tbody>
</table>

**Symptoms related to the physical, chemical and toxicological characteristics**

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

<table>
<thead>
<tr>
<th>Effects</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Delayed</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Long term exposure**

<table>
<thead>
<tr>
<th>Effects</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Delayed</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Potential chronic health effects**

Not available.

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Developmental</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Fertility</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>
Numerical measures of toxicity

Acute toxicity estimates
Not available.

**Section 12 - ECOLOGICAL INFORMATION**

Toxicity
Not available.

Persistence and degradability
Not available.

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Z)-but-2-ene</td>
<td>2.33</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in soil

Soil/water partition coefficient (KOC)
Not available.

Other adverse effects
No known significant effects or critical hazards.

**Section 13 - DISPOSAL CONSIDERATIONS**

Disposal methods
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

**Section 14 - Transport Information**

<table>
<thead>
<tr>
<th>DOT</th>
<th>TDG</th>
<th>Mexico</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1012</td>
<td>UN1012</td>
<td>UN1012</td>
<td>UN1012</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Butylene</td>
<td>Butylene</td>
<td>Butylene</td>
<td>Butylene</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.1</td>
<td>2.1</td>
<td>2.1</td>
<td>2.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Material Name: Cis-2-Butene

**Section 15 - REGULATORY INFORMATION**

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances

Clean Air Act Section 602 Class II Substances

DEA List I Chemicals (Precursor Chemicals)

DEA List II Chemicals (Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ SARA 311/312

Classification

Fire hazard

Sudden release of pressure

Composition/information on ingredients

**Additional information**

- Explosive Limit and Limited Quantity Index
  - 0.125
- ERAP Index
  - 3000
- Passenger Carrying Ship Index
  - Forbidden
- Passenger Carrying Road or Rail Index
  - Forbidden

“Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product.”

Special precautions for user

Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.
### Safety Data Sheet

**Material Name:** Cis-2-Butene

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Z)-but-2-ene</td>
<td>100</td>
<td>Yes.</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

#### State regulations

- **Massachusetts:** This material is listed.
- **New York New Jersey:** This material is not listed.
- **Pennsylvania:** This material is listed.
- **Canada inventory:** This material is listed or exempted.

#### International regulations

**International lists**

- **Australia inventory (AICS):** This material is listed or exempted.
- **China inventory (IECSC):** This material is listed or exempted.
- **Japan inventory:** This material is listed or exempted.
- **Korea inventory:** This material is listed or exempted.
- **Malaysia Inventory (EHS Register):** Not determined.
- **New Zealand Inventory of Chemicals (NZIoC):** This material is listed or exempted.
- **Philippines inventory (PICCS):** This material is listed or exempted.
- **Taiwan inventory (CSNN):** Not determined.

**Chemical Weapons Convention List Schedule I Chemicals**

- Not listed

**Chemical Weapons Convention List Schedule II Chemicals**

- Not listed

**Chemical Weapons Convention List Schedule III Chemicals**

- Not listed

**Canada**

- **WHMIS (Canada):**
  - Class A: Compressed gas.
  - Class B-1: Flammable gas.
  - **CEPA Toxic substances:** This material is not listed.
  - **Canadian ARET:** This material is not listed.
  - **Canadian NPRI:** This material is listed.
  - **Alberta Designated Substances:** This material is not listed.
  - **Ontario Designated Substances:** This material is not listed.
  - **Quebec Designated Substances:** This material is not listed.

---

**Section 16 - OTHER INFORMATION**

**Canada Label requirements**

- Class A: Compressed gas.
- Class B-1: Flammable gas.
Material Name: Cis-2-Butene

NFPA Ratings
Health: 1 Fire: 4 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia;
BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA -
Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products
Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic
Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial
Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC -
International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil
Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG -
International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower
Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value
in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute
for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program;
NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource
Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical
Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG -
Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL -
Upper Explosive Limit; US - United States

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information herein.