SAFETY DATA SHEET

AlphaPlus® 1-Butene

Version 2.7
Revision Date 2018-08-02

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information

Product Name: AlphaPlus® 1-Butene
Material: 1122418, 1036988, 1015419, 1037080, 1037081

EC-No. Registration number

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Legal Entity</th>
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<tbody>
<tr>
<td>1-Butene</td>
<td>106-98-9</td>
<td>Chevron Phillips Chemical Company LP</td>
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<tr>
<td></td>
<td>203-449-2</td>
<td>01-2119456615-34-0003</td>
</tr>
<tr>
<td></td>
<td>601-012-00-4</td>
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</table>

Relevant Identified Uses

Supported: Manufacture and use as an intermediate

Company

Chevron Phillips Chemical Company LP
Normal Alpha Olefins (NAO)
10001 Six Pines Drive
The Woodlands, TX 77380

Local

Chevron Phillips Chemicals International N.V.
Airport Plaza (Stockholm Building)
Leonardo Da Vinci laan 19
1831 Diegem
Belgium

SDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:sds@cpchem.com

Emergency telephone:

Health:
866.442.9628 (North America)
1.832.813.4984 (International)

Transport:
CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
AlphaPlus® 1-Butene

Version 2.7

Revision Date 2018-08-02

Mexico CHEMTREC 01-800-681-9531 (24 hours)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159839431

Responsible Department: Product Safety and Toxicology Group
E-mail address: SDS@CPChem.com
Website: www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture
REGULATION (EC) No 1272/2008

Flammable gases, Category 1
H220: Extremely flammable gas.

Gases under pressure, Liquefied gas
H280: Contains gas under pressure; may explode if heated.

Label elements
Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

Signal Word: Danger

Hazard Statements:
H220: Extremely flammable gas.
H280: Contains gas under pressure; may explode if heated.

Precautionary Statements:

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response:
P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 Eliminate all ignition sources if safe to do so.

Storage:
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

SECTION 3: Composition/information on ingredients

Synonyms:
Ethylethylene
1-Butylene
Alpha-butene
Butene-1 (C4)

SDS Number: 100000068452 2/14
**AlphaPlus® 1-Butene**

**Molecular formula** : C₄H₈

### Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Classification</th>
<th>Concentration [wt%]</th>
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</thead>
<tbody>
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<td></td>
<td>601-004-00-0</td>
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</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

**General advice** : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.

**If inhaled** : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

**In case of eye contact** : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**If swallowed** : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

### SECTION 5: Firefighting measures

**Flash point** : -80 °C (-112 °F)

**Autoignition temperature** : 383,89 °C (723,00 °F)

**Suitable extinguishing media** : Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

**Unsuitable extinguishing media** : High volume water jet.

**Special protective equipment for fire-fighters** : Wear self-contained breathing apparatus for firefighting if necessary.

**Further information** : For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool the container, and then confine the cherry-colored flames with water sprays.

SDS Number:10000068452 3/14
Fire and explosion protection: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products: Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions: Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 7: Handling and storage

Handling

Advice on safe handling: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers: Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

<table>
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<tr>
<th>SI</th>
<th>Sestavine</th>
<th>Osnova</th>
<th>Vrednost</th>
<th>Parametri nadzora</th>
<th>Pripomba</th>
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<tr>
<td>n-Butane</td>
<td>SI OEL</td>
<td>MV</td>
<td>1,000 ppm, 2,400 mg/m3</td>
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SDS Number: 100000068452 4/14
**SAFETY DATA SHEET**

**AlphaPlus® 1-Butene**

**Version 2.7**

**Revision Date 2018-08-02**

### RU

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<thead>
<tr>
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<th>Value</th>
<th>Parameters of control</th>
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<tbody>
<tr>
<td>1-Butene</td>
<td>RU OEL</td>
<td>ПДК</td>
<td>100 mg/m³</td>
<td>4, пары и/или газы</td>
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<td>n-Butane</td>
<td>RU OEL</td>
<td>ПДК разовая</td>
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<td>4, пары и/или газы</td>
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### PT

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<td>PT OEL</td>
<td>VLE-MP</td>
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<td>n-Butane</td>
<td>PT OEL</td>
<td>VLE</td>
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### NO

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<td>n-Butane</td>
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<td>TWA</td>
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### MK

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<td>MK OEL</td>
<td>MV</td>
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### LV

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<tr>
<td>n-Butane</td>
<td>LV OEL</td>
<td>AER</td>
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### IS

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<tr>
<td>n-Butane</td>
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<td>TWA</td>
<td>500 ppm, 1,200 mg/m³</td>
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### IE

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<tr>
<td>n-Butane</td>
<td>IE OEL</td>
<td>OELV-8 hrs (TWA)</td>
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### HU

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<tr>
<td>n-Butane</td>
<td>HU OEL</td>
<td>AK-érték</td>
<td>2,350 mg/m³</td>
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<tr>
<td></td>
<td>HU OEL</td>
<td>CK-érték</td>
<td>9,400 mg/m³</td>
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### HR

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<tr>
<td>n-Butane</td>
<td>HR OEL</td>
<td>GVI</td>
<td>600 ppm, 1,450 mg/m³</td>
<td>F+, F,</td>
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<tr>
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<td>HR OEL</td>
<td>STEL</td>
<td>750 ppm, 1,810 mg/m³</td>
<td>F+, F,</td>
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</table>

### GR

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<th>Parameters of control</th>
<th>Comment</th>
</tr>
</thead>
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<tr>
<td>n-Butane</td>
<td>GR OEL</td>
<td>TWA</td>
<td>1,000 ppm, 2,350 mg/m³</td>
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</table>

### GB

<table>
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<th>Base</th>
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<td>GB EH40</td>
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<td>Carc.</td>
</tr>
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<td>GB EH40</td>
<td>STEL</td>
<td>750 ppm, 1,810 mg/m³</td>
<td>Carc.</td>
</tr>
</tbody>
</table>

### FR

<table>
<thead>
<tr>
<th>Component</th>
<th>Base</th>
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<th>Parameters of control</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butane</td>
<td>FR VLE</td>
<td>VME</td>
<td>800 ppm, 1,900 mg/m³</td>
<td>normal</td>
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</tbody>
</table>

**Carc**: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: May cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH.
### Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
Personal protective equipment

Respiratory protection: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Eye wash bottle with pure water. Safety glasses.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.

Hygiene measures: Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance
Form: Liquefied gas, Gases under pressure
Physical state: Gaseous
Color: Colorless

Safety data
Flash point: -80 °C (-112 °F)
Lower explosion limit: 1,6 %(V)
Upper explosion limit: 9,3 %(V)
Oxidizing properties: no

Autoignition temperature: 383,89 °C (723,00 °F)
Molecular formula: C4H8
Molecular weight: 56,12 g/mol
pH : Not applicable
Freezing point : -185 °C (-301 °F)
Pour point : No data available
Boiling point/boiling range : -6.26 °C (20.73 °F)
Vapor pressure : 1.895,00 MMHG
Relative density : 0,6
Density : 600,3 g/l
Water solubility : Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-octanol/water : No data available
Viscosity, kinematic : No data available
Relative vapor density : 1.93
Evaporation rate : No data available
Percent volatile : > 99 %
AlphaPlus® 1-Butene

Acute oral toxicity: Negligible or unlikely exposure pathways

**AlphaPlus® 1-Butene**

**Acute inhalation toxicity**
- LC50: > 10000 ppm
- Exposure time: 4 h
- Species: Rat
- Test atmosphere: vapor
- Method: OECD Test Guideline 403
- Information given is based on data obtained from similar substances.

**AlphaPlus® 1-Butene**

**Acute dermal toxicity**: Negligible or unlikely exposure pathways

**AlphaPlus® 1-Butene**

**Skin irritation**: No skin irritation. Rapid evaporation of the liquid may cause frostbite.

**AlphaPlus® 1-Butene**

**Eye irritation**: No eye irritation. Contact with liquid or refrigerated gas can cause cold burns and frostbite.

**AlphaPlus® 1-Butene**

**Sensitization**: No data available.

**Repeated dose toxicity**

1-Butene
- Species: Rat, Male and female
- Sex: Male and female
- Application Route: Inhalation
- Dose: 0, 500, 2000, 8000 ppm
- Exposure time: 28 d
- Number of exposures: 6 hr/d, 7 d/wk
- NOEL: 8000 ppm
- Method: OECD Guideline 422
- No adverse effect has been observed in chronic toxicity tests.

n-Butane
- Species: Rat, Male and female
- Sex: Male and female
- Application Route: Inhalation
- Dose: 0, 1017, 4489 ppm
- Exposure time: 90 day
- Number of exposures: 6 hr/d, 5 d/wk
- NOEL: 4489 ppm

**Carcinogenicity**

1-Butene
- Species: Rat
- Sex: male
- Dose: 0, 500, 2000, 8000 ppm
- Exposure time: 2 years
- Number of exposures: 6 hr/d, 5 d/wk
- Remarks: increased incidence of thyroid tumors, Information given is based on data obtained from similar substances.
AlphaPlus® 1-Butene

Reproductive toxicity

Species: Rat
Sex: female
Dose: 0, 500, 2000, 8000 ppm
Exposure time: 2 years
Number of exposures: 6 hr/d, 5 d/wk
Remarks: no increase incidence of tumors, Information given is based on data obtained from similar substances.

Species: Mouse
Sex: male
Dose: 0, 500, 2000, 8000 ppm
Exposure time: 2 years
Number of exposures: 6 hr/d, 5 d/wk
Remarks: no increase incidence of tumors, Information given is based on data obtained from similar substances.

Species: Mouse
Sex: female
Dose: 0, 500, 2000, 8000 ppm
Exposure time: 2 years
Number of exposures: 6 hr/d, 5 d/wk
Remarks: no increase incidence of tumors, Information given is based on data obtained from similar substances.

CMR effects

1-Butene

Carcinogenicity: Not classifiable as a human carcinogen.
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Teratogenicity: Animal testing did not show any effects on fetal development.
Reproductive toxicity: Animal testing did not show any effects on fertility.

Further information

AlphaPlus® 1-Butene: No data available.

SECTION 12: Ecological information

Elimination information (persistence and degradability)

Biodegradability: This material is expected to be readily biodegradable.

Ecotoxicology Assessment

Results of PBT assessment: This substance/mixture contains no components considered
## AlphaPlus® 1-Butene

**Version 2.7**  
**Revision Date**: 2018-08-02

### Additional ecological information

- No data available

### SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

- **Product**: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

- **Contaminated packaging**: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.). Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

- UN1012, BUTYLENE, 2.1
- NON- ODORIZED

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

- UN1012, BUTYLENE, 2.1, (-80 °C)
  - NON- ODORIZED

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

- UN1012, BUTYLENE, 2.1
  - NON- ODORIZED

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

- UN1012, 1-BUTYLENE, 2.1, (B/D)
  - NON- ODORIZED

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF**

SDS Number:100000068452  
11/14
AlphaPlus® 1-Butene

SECTION 15: Regulatory information

National legislation
Chemical Safety Assessment
Ingredients : but-1-ene A Chemical Safety Assessment 203-449-2 has been carried out for this substance.

Major Accident Hazard Legislation : ZEU_SEVES3 Update: FLAMMABLE GASES P2 Quantity 1: 10 t Quantity 2: 50 t

Notification status
Europe REACH : On the inventory, or in compliance with the inventory
United States of America (USA) TSCA : On the inventory, or in compliance with the inventory
Canada DSL : On the inventory, or in compliance with the inventory
Australia AICS : On the inventory, or in compliance with the inventory
New Zealand NZIoC : On the inventory, or in compliance with the inventory
Japan ENCS : On the inventory, or in compliance with the inventory
Korea KECI : On the inventory, or in compliance with the inventory
Philippines PICCS : On the inventory, or in compliance with the inventory
China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 1 Fire Hazard: 4 Reactivity Hazard: 0

SDS Number:100000068452 12/14
Further information

Legacy SDS Number : PE0015

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
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<td>ACGIH</td>
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<td>LD50</td>
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Full text of H-Statements referred to under sections 2 and 3.
H220  Extremely flammable gas.
H280  Contains gas under pressure; may explode if heated.