

**AlphaPlus® 1-Octadecene**

Version 1.7

Revision Date 2015-03-11

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

Product Name : AlphaPlus® 1-Octadecene  
Material : 1064095, 1037052, 1037053, 1036984, 1037051, 1037050

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

**Emergency telephone:****Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

**Transport:**

North America: CHEMTREC 800.424.9300 or 703.527.3887

Asia: +800 CHEMCALL (+800 2436 2255) China: +86-21-22157316

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

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**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

**Emergency Overview****Danger****Physical state:** Liquid **Color:** Colorless liquid or white solid

OSHA Hazards : Aspiration hazard

**Classification**

: Aspiration hazard , Category 1

**Labeling**

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Symbol(s)

:



Signal Word

:

Danger

Hazard Statements

: H304: May be fatal if swallowed and enters airways.

Precautionary Statements

:

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P331 Do NOT induce vomiting.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity:****IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**SECTION 3: Composition/information on ingredients**

Synonyms

:

C18  
NAO 18  
Octadecene-1  
C18H36

Molecular formula

:

C18H36

| Component    | CAS-No.  | Weight % |
|--------------|----------|----------|
| 1-Octadecene | 112-88-9 | 90 - 100 |

**SECTION 4: First aid measures**

General advice

:

Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

If inhaled

:

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

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- |                        |   |  |
|------------------------|---|--|
| 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. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. |

**SECTION 5: Firefighting measures**

- |  |   |  |
|--|---|--|
| Flash point                                    | : | 154 °C (309 °F)<br>Method: PMCC  |
| Autoignition temperature                       | : | 250 °C (482 °F)  |
| Unsuitable extinguishing media                 | : | High volume water jet.   |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary.   |
| Further information                            | : | Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Fire and explosion protection                  | : | Normal measures for preventive fire protection.  |
| Hazardous decomposition products               | : | Carbon Dioxide. Carbon monoxide.   |

**SECTION 6: Accidental release measures**

- |                           |   |   |
|---------------------------|---|---|
| Personal precautions      | : | Use personal protective equipment. Ensure adequate ventilation.   |
| 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. |
| Methods for cleaning up   | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.                          |

**SECTION 7: Handling and storage****Handling**

- |                         |   |   |
|-------------------------|---|---|
| Advice on safe handling | : | Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. |
|-------------------------|---|---|

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Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**Storage**

Requirements for storage areas and containers : 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****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, Dusts and Mists. 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. Tightly fitting safety goggles.

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:. Protective suit. Safety shoes.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance**

Physical state : Liquid  
Color : Colorless liquid or white solid

**Safety data**

Flash point : 154 °C (309 °F)  
Method: PMCC

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|  |  |
|--|--|
| Lower explosion limit                  | : 0.4 %(V)   |
| Upper explosion limit                  | : 6.9 %(V)   |
| Oxidizing properties                   | : no   |
| Autoignition temperature               | : 250 °C (482 °F)  |
| Molecular formula                      | : C <sub>18</sub> H <sub>36</sub>  |
| Molecular weight                       | : 252.54 g/mol   |
| pH                                     | : Not applicable   |
| pour point                             | : No data available  |
| Freezing point                         | 17.5 °C (63.5 °F)  |
| Boiling point/boiling range            | : 315 °C (599 °F)  |
| Vapor pressure                         | : 0.00 Pa<br>at 25 °C (77 °F)<br><br>< 0.01 kPa<br>at 65 °C (149 °F)   |
| Relative density                       | : 0.79, 15.6 °C(60.1 °F)   |
| Density                                | : 792 kg/m <sup>3</sup><br>at 15 °C (59 °F)<br><br>789 kg/m <sup>3</sup><br>at 20 °C (68 °F)<br><br>768 kg/m <sup>3</sup><br>at 50 °C (122 °F) |
| Water solubility                       | : Soluble in hydrocarbon solvents; insoluble in water.   |
| Partition coefficient: n-octanol/water | : No data available  |
| Viscosity, kinematic                   | : 3.8 cSt<br>at 37.8 °C (100.0 °F)   |
| Relative vapor density                 | : 8.71<br>(Air = 1.0)  |
| Evaporation rate                       | : No data available  |

**SECTION 10: Stability and reactivity**

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Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Possibility of hazardous reactions**

Conditions to avoid : No data available.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous decomposition products : Carbon Dioxide  
Carbon monoxide

Other data : No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information****Acute oral toxicity**

1-Octadecene : LD50: > 10,000 mg/kg  
Species: rat  
Sex: male and female  
Method: OECD Test Guideline 401  
Test substance: no  
Information given is based on data obtained from similar substances.

**Skin irritation**

1-Octadecene : No skin irritation  
Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

**Eye irritation**

1-Octadecene : No eye irritation

**Sensitization**

1-Octadecene : Did not cause sensitization on laboratory animals.

**Repeated dose toxicity**

1-Octadecene : Species: rat (female)  
Application Route: oral gavage  
Dose: 0, 100, 500, 1000 mg/kg/d  
NOEL: 1,000 mg/kg  
Method: OECD Guideline 422  
Information given is based on data obtained from similar substances.

**Reproductive toxicity**

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- 1-Octadecene : Species: rat  
 Sex: male and female  
 Application Route: oral gavage  
 Dose: 0, 100, 500, 1000 mg/kg/d  
 Method: OECD Guideline 421  
 NOAEL Parent: 1,000 mg/kg  
 NOAEL F1: 1,000 mg/kg  
 Information given is based on data obtained from similar substances.
- AlphaPlus® 1-Octadecene**  
**Aspiration toxicity** : May be fatal if swallowed and enters airways.  
 Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
- CMR effects**
- 1-Octadecene : Carcinogenicity: Not available  
 Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Teratogenicity: Not available  
 Reproductive toxicity: No toxicity to reproduction
- AlphaPlus® 1-Octadecene**  
**Further information** : Solvents may degrease the skin.

**SECTION 12: Ecological information****Toxicity to fish**

- 1-Octadecene : LL50: > 1,000 mg/l  
 Exposure time: 96 h  
 Species: Oncorhynchus mykiss (rainbow trout)  
 Method: OECD Test Guideline 203  
 Information given is based on data obtained from similar substances.

**Toxicity to daphnia and other aquatic invertebrates**

- 1-Octadecene : EL50: > 1,000 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 Method: OECD Test Guideline 202  
 Information given is based on data obtained from similar substances.

**Toxicity to algae**

- 1-Octadecene : EC50: > 1,000 mg/l  
 Exposure time: 72 h  
 Species: Raphidocellus subcapitata (algae)  
 Method: OECD Test Guideline 201  
 Information given is based on data obtained from similar substances.

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**Toxicity to bacteria**

1-Octadecene : NOEC: 3 mg/l  
Exposure time: 120 h  
Respiration inhibition

**Bioaccumulation**

1-Octadecene : Bioconcentration factor (BCF): 5,128  
Method: Estimated based on individual component values.

**Biodegradability**

1-Octadecene : This material is expected to be readily biodegradable.  
Information given is based on data obtained from similar substances.

**Ecotoxicology Assessment****Results of PBT assessment**

1-Octadecene : Non-classified PBT substance, Non-classified vPvB substance

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.

**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.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

**SECTION 15: Regulatory information****National legislation**

**SARA 311/312 Hazards** : No SARA Hazards

**EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

CERCLA Reportable Quantity : This material does not contain any components with a CERCLA RQ.

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

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- SARA 302 Threshold Planning Quantity : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.
- SARA 313 Ingredients : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

- Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**US State Regulations**

- Pennsylvania Right To Know : No components are subject to the Pennsylvania Right to Know Act.
- New Jersey Right To Know : No components are subject to the New Jersey Right to Know Act.
- California Prop. 65 Ingredients : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**Notification status**

- Europe REACH : On the inventory, or in compliance with the inventory
- United States of America 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

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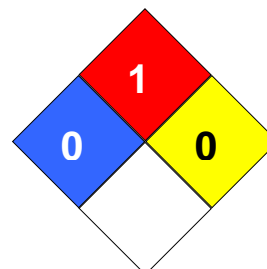
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Philippines PICCS : On the inventory, or in compliance with the inventory  
 China IECSC : On the inventory, or in compliance with the inventory

**SECTION 16: Other information**

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

**Further information**

Legacy SDS Number : PE0023

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.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

|        |   |       |   |
|--------|---|-------|---|
| ACGIH  | American Conference of Government Industrial Hygienists | LD50  | Lethal Dose 50%   |
| AICS   | Australia, Inventory of Chemical Substances             | LOAEL | Lowest Observed Adverse Effect Level                    |
| DSL    | Canada, Domestic Substances List                        | NFPA  | National Fire Protection Agency                         |
| NDSL   | Canada, Non-Domestic Substances List                    | NIOSH | National Institute for Occupational Safety & Health     |
| CNS    | Central Nervous System                                  | NTP   | National Toxicology Program                             |
| CAS    | Chemical Abstract Service                               | NZIoC | New Zealand Inventory of Chemicals                      |
| EC50   | Effective Concentration                                 | NOAEL | No Observable Adverse Effect Level                      |
| EC50   | Effective Concentration 50%                             | NOEC  | No Observed Effect Concentration                        |
| EGEST  | EOSCA Generic Exposure Scenario Tool                    | OSHA  | Occupational Safety & Health Administration             |
| EOSCA  | European Oilfield Specialty Chemicals Association       | PEL   | Permissible Exposure Limit                              |
| EINECS | European Inventory of Existing Chemical Substances      | PICCS | Philippines Inventory of Commercial Chemical Substances |
| MAK    | Germany Maximum Concentration Values                    | PRNT  | Presumed Not Toxic                                      |
| GHS    | Globally Harmonized System                              | RCRA  | Resource Conservation Recovery Act                      |
| >=     | Greater Than or Equal To                                | STEL  | Short-term Exposure Limit                               |
| IC50   | Inhibition Concentration 50%                            | SARA  | Superfund Amendments and                                |

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|       |  |       |  |
|-------|--|-------|--|
|       |  |       | Reauthorization Act.   |
| IARC  | International Agency for Research on Cancer              | TLV   | Threshold Limit Value  |
| IECSC | Inventory of Existing Chemical Substances in China       | TWA   | Time Weighted Average  |
| ENCS  | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act  |
| KECI  | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=    | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50  | Lethal Concentration 50%                                 |       |  |