

Version 2.7 Revision Date 2019-12-11

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

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

1.1

Product information

Product Name : AlphaPlus® 1-Octadecene

Material : 1064095, 1037052, 1037053, 1036984, 1037051, 1037050

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
1-Octadecene	112-88-9 204-012-9	Chevron Phillips Chemical Company LP 01-2119474213-44-0001

1.2

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses : Manufacture

Supported Distribution

Formulation

Use in Oil and Gas field drilling and production operations -

Industrial

Use in Oil and Gas field drilling and production operations -

Professional

Use in polymer production - industrial

Use as an intermediate
Use in coatings – industrial
Use in coatings – professional
Use in Coatings - Consumer
Use in mining – industrial

1.3

Details of the supplier of the safety data sheet

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 Vincilaan 19

1831 Diegem

SDS Number:100000067758 1/14

Version 2.7 Revision Date 2019-12-11

Belgium

SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:sds@cpchem.com

1.4

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)

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

2.1

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

Aspiration hazard, Category 1 H304:

May be fatal if swallowed and enters airways.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



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/doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

SDS Number:100000067758 2/14

Version 2.7 Revision Date 2019-12-11

Hazardous ingredients which must be listed on the label:

• 112-88-9 1-Octadecene

Additional Labeling:

EUH066 Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 - 3.2

Substance or Mixture

Synonyms : C18

NAO 18 Octadecene-1 C18H36

Molecular formula : C18H36

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
1-Octadecene	112-88-9 204-012-9	Asp. Tox. 1; H304	90 - 100

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

SECTION 4: First aid measures

4.1

Description of 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.

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)

Method: PMCC

SDS Number:100000067758 3/14

AlphaPlus® 1-Octadecene

Version 2.7 Revision Date 2019-12-11

Autoignition temperature : 250°C (482°F)

5.1

Extinguishing media

Unsuitable extinguishing

media

: High volume water jet.

5.2

Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

5.3

Advice for firefighters

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

6.1

Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation.

6.2

Environmental precautions

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.

6.3

Methods and materials for containment and cleaning up

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.

6.4

Reference to other sections

Reference to other sections : For personal protection see section 8. For disposal

considerations see section 13.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SDS Number:100000067758 4/14

Version 2.7 Revision Date 2019-12-11

SECTION 7: Handling and storage

7.1

Precautions for safe handling 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.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

7.2

Conditions for safe storage, including any incompatibilities

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

8.2

Exposure controls

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 airpurifying 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

SDS Number:100000067758 5/14

Version 2.7 Revision Date 2019-12-11

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.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 9: Physical and chemical properties

9.1

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

Lower explosion limit : 0,4 %(V)

Upper explosion limit : 6,9 %(V)

Oxidizing properties : no

Autoignition temperature : 250°C (482°F)

Molecular formula : C18H36

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

at 25°C (77°F)

< 0,01 kPa at 65°C (149°F)

Relative density : 0,79

at 15,6 °C (60,1 °F)

Density : 792 kg/m3

at 15°C (59°F)

789 kg/m3 at 20°C (68°F)

SDS Number:100000067758 6/14

AlphaPlus® 1-Octadecene

Version 2.7 Revision Date 2019-12-11

768 kg/m3 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

at 37,8°C (100,0°F)

Relative vapor density : 8,71

(Air = 1.0)

Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1

Reactivity : Stable at normal ambient temperature and pressure.

10.2

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

10.3

Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization does not

occur.

Further information: No decomposition if stored and applied as

directed.

10.4

Conditions to avoid : No data available.

10.5

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

10.6

Hazardous decomposition

products

: Carbon Dioxide Carbon monoxide

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

SECTION 11: Toxicological information

11.1

Information on toxicological effects

SDS Number:100000067758 7/14

Version 2.7 Revision Date 2019-12-11

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.

Acute inhalation toxicity

1-Octadecene : Not classified due to data which are conclusive although

insufficient for classification.

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.

Genotoxicity in vitro

1-Octadecene : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: rodent hepatocytes Method: OECD Test Guideline 473

Result: negative

Reproductive toxicity

1-Octadecene : Species: Rat

SDS Number:100000067758 8/14

Version 2.7 Revision Date 2019-12-11

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

12.1

Toxicity

Ecotoxicity effects 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)

SDS Number:100000067758 9/14

Version 2.7 Revision Date 2019-12-11

Method: OECD Test Guideline 201

Information given is based on data obtained from similar

substances.

Toxicity to bacteria

1-Octadecene : NOEC: 3 mg/l

Exposure time: 120 h Respiration inhibition

12.2

Persistence and degradability

Biodegradability

1-Octadecene : This material is expected to be readily biodegradable.

Information given is based on data obtained from similar

substances.

12.3

Bioaccumulative potential

Elimination information (persistence and degradability)

12.4

Mobility in soil

Mobility : No data available

12.5

Results of PBT and vPvB assessment

Results of PBT assessment

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

12.6

Other adverse effects

Additional ecological

information

: No data available

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

: This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic

hazard

: This material is not expected to be harmful to aquatic

10/14

organisms.

SECTION 13: Disposal considerations

13.1

Waste treatment methods

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.

SDS Number:100000067758

AlphaPlus® 1-Octadecene

Version 2.7 Revision Date 2019-12-11

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.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 14: Transport information

14.1 - 14.7

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)

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.

SDS Number:100000067758 11/14

AlphaPlus® 1-Octadecene

Version 2.7 Revision Date 2019-12-11

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

SECTION 15: Regulatory information

15.1

Safety, health and environmental regulations/legislation specific for the substance or mixture **National legislation**

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2

Chemical Safety Assessment

A Chemical Safety Assessment 204-012-9 Components : octadec-1-ene

has been carried out for this

substance.

Major Accident Hazard : 96/82/EC Update: 2003 Legislation Directive 96/82/EC does not apply

Notification status

Europe REACH On the inventory, or in compliance with the inventory Switzerland CH INV On the inventory, or in compliance with the inventory United States of America (USA) On or in compliance with the active portion of the

TSCA inventory

TSCA

Canada DSL All components of this product are on the Canadian

Australia AICS On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory New Zealand NZIoC On the inventory, or in compliance with the inventory Japan ENCS Korea KECI All substances in this product were registered, notified

to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of

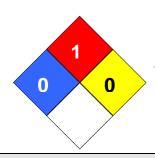
Record themselves notified the substances.

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

SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



SDS Number:100000067758 12/14

Version 2.7 Revision Date 2019-12-11

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 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%				

Full text of H-Statements referred to under sections 2 and 3.

SDS Number:100000067758 13/14

		CAFETY DATA CLIFET
AlphaPlus® 1-Octa	adecene	SAFETY DATA SHEET
		Revision Date 2019-12-11
AlphaPlus® 1-Octa Version 2.7 H304	May be fatal if swallowed and enters airw	SAFETY DATA SHEET Revision Date 2019-12-11 rays.
SDS Number:10000006775	8 14/14	