

# AlphaPlus® C16-18 IS

Version 1.7 Revision Date 2016-06-14

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

**Product information** 

Product Name : AlphaPlus® C16-18 IS

Material : 1104271, 1037045, 1037042, 1037044, 1037046, 1037043,

1037040, 1037041, 1037047

Use : Drilling Fluid Additive

Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

#### **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: +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

Form: Liquid Physical state: Liquid Color: Clear, colorless to light yellow

OSHA Hazards : Aspiration hazard

Classification

: Aspiration hazard, Category 1

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#### Labeling

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/doctor.

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**

Molecular formula : C16H32 - C18H36

Component	CAS-No.	Weight %
Hexadecene	26952-14-7	60 - 70
Octadecene	27070-58-2	30 - 40

#### **SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

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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. 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 :  $> 130 \, ^{\circ}\text{C} \, (> 266 \, ^{\circ}\text{F})$ 

Method: Cleveland Open Cup

Autoignition temperature : 227 °C (441 °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.

### **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. Avoid contact with skin and eyes.

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.

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#### 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**

#### **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. 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:. Lightweight

protective clothing.

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

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Form : Liquid Physical state : Liquid

Color : Clear, colorless to light yellow

Safety data

Flash point :  $> 130 \, ^{\circ}\text{C} \, (> 266 \, ^{\circ}\text{F})$ 

Method: Cleveland Open Cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : 227 °C (441 °F)

Thermal decomposition : No data available

Molecular formula : C16H32 - C18H36

Molecular weight : Varies

pH : Not applicable

Freezing point :  $< -10 \, ^{\circ}\text{C} \, (< 14 \, ^{\circ}\text{F})$ 

Pour point No data available

Boiling point/boiling range : 270 °C (518 °F)

Vapor pressure : 0.01 PSI

at 100 °C (212 °F)

Relative density : 0.79

at 15.6 °C (60.1 °F)

Density : 0.76 G/ML

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: n-

Viscosity, kinematic

Relative vapor density

octanol/water

: No data available

: 3 - 3.7 cSt

at 40 °C (104 °F)

8 (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.

Thermal decomposition : No data available

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

#### **SECTION 11: Toxicological information**

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Acute oral toxicity : LD50 Oral: > 5,000 mg/kg

Species: Rat

Method: Acute toxicity estimate

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Acute inhalation toxicity : LC50: > 2.1 mg/l

Exposure time: 4 h Species: Rat

Test atmosphere: vapor

Method: Acute toxicity estimate

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Acute dermal toxicity : LD50 Dermal: > 2,000 mg/kg

Method: Acute toxicity estimate

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**Skin irritation** : Repeated or prolonged contact with the mixture may cause

removal of natural fat from the skin resulting in desiccation of

the skin.

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**Eye irritation** : No adverse effects expected. Information refers to the main

ingredient.

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Sensitization : Contains no substance or substances classified as sensitizing.

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Repeated dose toxicity : No data available

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**Reproductive toxicity** : This information is not available.

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**Developmental Toxicity**: This information is not available.

**Aspiration toxicity** 

Hexadecene : May be fatal if swallowed and enters airways.
Octadecene : May be fatal if swallowed and enters airways.

**CMR** effects

Hexadecene : Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects.

Reproductive toxicity: Animal testing did not show any effects

on fertility.

Octadecene Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Did not show mutagenic effects in animal

experiments.

Teratogenicity: Did not show teratogenic effects in animal

experiments.

Reproductive toxicity: No toxicity to reproduction

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**Further information** : Solvents may degrease the skin.

#### **SECTION 12: Ecological information**

### Toxicity to fish

Hexadecene : LL50: > 1,000 mg/l

Exposure time: 96 h

Species: Cyprinodon variegatus (sheepshead minnow)

static test Method: OECD Test Guideline 203

Information given is based on data obtained from similar

substances.

Octadecene LL50: > 1000 mg/L

Exposure time: 96 h

Species: Cyprinodon variegatus (sheepshead minnow)

static test Test substance: no Method: OECD Test Guideline 203

Information given is based on data obtained from similar

substances.

### Toxicity to daphnia and other aquatic invertebrates

Hexadecene : EL50: > 1,000 mg/l

Exposure time: 96 h

Species: Mysidopsis bahia (mysid shrimp)

static test

Octadecene EL50: > 1000 mg/L

Exposure time: 48 h

Species: Acartia tonsa (Marine Copepod)

static test

#### Toxicity to algae

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Hexadecene : EL50: > 1,000 mg/l

Exposure time: 72 h

Species: Skeletonema costatum (marine diatom)

static test

Octadecene EL50: > 1000 mg/L

Exposure time: 72 h

Species: Skeletonema costatum (Marine Algae)

static test Information given is based on data obtained from

similar substances.

Elimination information (persistence and degradability)

Bioaccumulation

Octadecene : This material is not expected to bioaccumulate.

Biodegradability : This material is expected to be readily biodegradable.

**Ecotoxicology Assessment** 

Results of PBT assessment : This mixture contains no substance considered to be

persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and

very bioaccumulating (vPvB).

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**

Nationa	

SARA 311/312 Hazards : Acute Health Hazard

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

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: No chemicals in this material are subject to the reporting

302 RQ.

SARA 302 Threshold Planning Quantity

requirements of SARA Title III, Section 302.

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SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : 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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **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 : This mixture contains only ingredients which have been

registered according to Regulation (EU) No. 1907/2006

(REACH).

Switzerland CH INV : On the inventory, or in compliance with the inventory United States of America TSCA : On the inventory, or in compliance with the inventory

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Canada NDSL : This product contains one or several components listed

in the Canadian NDSL.

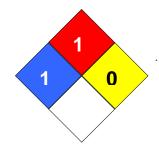
Australia AICS : Not in compliance with the inventory

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: 1 Reactivity Hazard: 0



**Further information** 

Legacy SDS Number : 5861

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		

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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%	-	

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