

Version 1.5 Revision Date 2025-07-31

according to GB/T 16483 and GB/T 17519

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

Product information

Product Name : AlphaPlus® C16 IS

Material : 1080595, 1088623, 1093000

Company : Chevron Phillips Chemical Company LP

Normal Alpha Olefins (NAO)

9500 Lakeside Blvd. The Woodlands, TX 77381

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

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

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

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

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

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

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

Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;

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Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

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

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

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

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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

GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2013)

Emergency Overview

Danger

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

Hazards : Causes mild skin irritation. May be fatal if swallowed and enters

airways.

Classification

: Skin corrosion/irritation, Category 3 Aspiration hazard, Category 1

Labeling

Symbol(s) :



Signal Word : Danger

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

H316: Causes mild skin irritation.

Precautionary Statements : Response:

P301+P310: IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P331: Do NOT induce vomiting.

P332 + P313: If skin irritation occurs: Get medical advice/

attention.

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Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/ container to an approved waste

disposal plant.

SECTION 3: Composition/information on ingredients

Molecular formula : UVCB

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
Hexadecene	26952-14-7	90 - 98

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.

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 : 127°C (261°F)

Method: Cleveland Open Cup

Autoignition temperature : No data available

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.

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Fire and explosion

protection

: Normal measures for preventive fire protection.

SECTION 6: Accidental release measures

Personal precautions Use personal protective equipment. Ensure adequate

ventilation.

Prevent product from entering drains. Prevent further leakage **Environmental precautions**

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.

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

Not applicable

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 If ventilation or other engineering controls are not adequate to

maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of

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airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Dusts and Mists / P100. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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

Form : liquid Physical state : liquid

Color : Clear, colorless to light yellow

Safety data

Flash point : 127°C (261°F)

Method: Cleveland Open Cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : No data available

Molecular formula : UVCB

Molecular weight : Not applicable

pH : Not applicable

Freezing point : -10°C (14°F)

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Boiling point/boiling range : 280°C (536°F)

Vapor pressure : 0.00 bar

at 25°C (77°F)

Relative density : 0.79

at 15.6 °C (60.1 °F)

Density : 0.79 G/ML

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

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 2.6 cSt

at 40°C (104°F)

Relative vapor density : No data available

Evaporation rate : No data available

SECTION 10: Stability and reactivity

Reactivity: Stable at normal ambient temperature and pressure.

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

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Hazardous reactions : Further information: No decomposition if stored and applied as

directed.

Conditions to avoid : 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: > 5,050 mg/kg

Species: Rat

Sex: male and female

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Acute inhalation toxicity : LC50: > 5.0 mg/l

Exposure time: 4 h

Species: Rat

Test atmosphere: dust/mist

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Method: Acute toxicity estimate

Information given is based on data obtained from similar

substances.

AlphaPlus® C16 IS Acute dermal toxicity

: LD50 Dermal: > 2,020 mg/kg

Species: Rabbit Sex: male and female

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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.

May cause skin irritation and/or dermatitis.

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Eye irritation : No eye irritation.

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Sensitization : Did not cause sensitization on laboratory animals. Information

given is based on data obtained from similar substances.

Repeated dose toxicity

Hexadecene : Species: Rat, Male and female

Sex: Male and female Application Route: Oral Dose: 0, 25, 150, 1000 mg/kg

Exposure time: 4 wks
Number of exposures: daily
NOEL: 1,000 mg/kg

Method: OECD Test Guideline 407

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 0, 300, 1000, 3000 ppm Exposure time: 13 wks

Number of exposures: 6 hrs/d, 5 d/wk

NOEL: 3000 ppm

Method: OECD Guideline 413

Information given is based on data obtained from similar

substances.

Genotoxicity in vitro

Hexadecene : Test Type: Ames test

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Result: negative

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Test Type: Mammalian cell gene mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 476

Result: negative

Test Type: Unscheduled DNA synthesis assay

Method: OECD Guideline 473

Result: negative

Genotoxicity in vivo

Hexadecene : Test Type: Mouse micronucleus assay

Method: Mutagenicity (micronucleus test)

Result: negative

Reproductive toxicity

Hexadecene : Species: Rat

Sex: male and female Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg/ Number of exposures: once daily Method: OECD Guideline 421 NOAEL F1: 1,000 mg/kg

Information given is based on data obtained from similar

substances.

Aspiration toxicity

Hexadecene : 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.

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Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

Ecotoxicity effects 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.

Toxicity to daphnia and other aquatic invertebrates

Hexadecene : EL50: > 1,000 mg/l

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Exposure time: 96 h

Species: Mysidopsis bahia (mysid shrimp)

static test

Toxicity to algae

Hexadecene : EL50: > 1,000 mg/l

Exposure time: 72 h

Species: Skeletonema costatum (marine diatom)

static test

Biodegradability : This material is expected to be readily biodegradable.

Elimination information (persistence and degradability)

Bioaccumulation : No data available

Mobility : No data available

Results of PBT assessment

Hexadecene : Non-classified vPvB substance, Non-classified PBT substance

Additional ecological

information

: This material is not expected to be harmful to aquatic

organisms.

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

organisms.

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.

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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)

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 ÓR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Other information : OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

Notification status

Europe REACH : Not in compliance with the inventory Switzerland CH INV : Not in compliance with the inventory

United States of America (USA) : On or in compliance with the active portion of the

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TSCA TSCA inventory

Canada NDSL : This product contains one or several components listed

in the Canadian NDSL.

Australia AIIC : Not in compliance with the inventory

New Zealand NZIoC : This substance may be used as a component in a

product covered by a group standard but it is not approved for use as a chemical in its own right

Japan ENCS : On the inventory, or in compliance with the inventory

Korea KECI : A substance(s) in this product was not registered,

notified to be registered, or exempted from registration

by CPChem according to K-REACH regulations.

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

SECTION 16: Other information

Further information

Legacy SDS Number : 7890

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.

Voy or logged to approvinting and accommo year in the actory data sheet					
Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of	LD50	Lethal Dose 50%		
	Government Industrial Hygienists				
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effect		
	Chemicals		Level		
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency		
	List				
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational		
	Substances List		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	OSHA	Occupational Safety & Health		
	Scenario Tool		Administration		
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit		
	Chemicals Association				
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of		
	Chemical Substances		Commercial Chemical Substances		
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic		
	Values				
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery		
			Act		
L	L.				

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>=	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%	ATE	Acute toxicity estimate

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