

Version 1.5 Revision Date 2016-06-10

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

Product information

Product Name : AlphaPlus® C10-12 BLENDC 25:75

Material: 1109323

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:

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
OSHA Hazards : Flammable Liquid, Aspiration hazard

Classification

: Flammable liquids, Category 3 Aspiration hazard, Category 1

Labeling

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Symbol(s)





Signal Word : Danger

Hazard Statements : H226: Flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

Precautionary Statements : **Prevention**:

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

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 : Mixture

Component	CAS-No.	Weight %
1-Dodecene	112-41-4	60 - 90
1-Decene	872-05-9	10 - 40

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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 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 : 55 °C (131 °F)

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

: High volume water jet.

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed

containers.

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). Keep away from open flames, hot surfaces and sources of

ignition.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. 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

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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.

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

SECTION 7: Handling and storage

Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. 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. 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). Keep away from open flames, hot surfaces and sources of

ignition.

Storage

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. 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

US

Ingredients	Basis	Value	Control parameters	Note
1-Decene	US WEEL	TWA	100 ppm,	

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

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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:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

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

Safety data

Flash point : 55 °C (131 °F)

Lower explosion limit : No data available

Upper explosion limit : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : No data available

Freezing point : -60 °C (-76 °F)

Boiling point/boiling range : 196 °C (385 °F)

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Density : 0.75 g/cm3

at 25 °C (77 °F)

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

SECTION 10: Stability and reactivity

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 : Heat, flames and sparks.

Other data : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

SECTION 11: Toxicological information

Acute oral toxicity

1-Dodecene : LD50: > 10,000 mg/kg

Species: Rat Sex: male

Method: Fixed Dose Method

Information given is based on data obtained from similar

substances.

Skin irritation

1-Dodecene : No skin irritation

1-Decene 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-Dodecene : No eye irritation

Information given is based on data obtained from similar

substances.

1-Decene No eye irritation

Sensitization

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

1-Decene Did not cause sensitization on laboratory animals.

Information given is based on data obtained from similar

substances.

Repeated dose toxicity

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1-Dodecene : Species: Rat, Male and female

Sex: Male and female Application Route: Oral diet Dose: 0, 100, 500, 1000 mg/kg Exposure time: 13 wk

Number of exposures: daily NOEL: 1,000 mg/kg

Method: OCED Guideline 408

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 wk

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.

1-Decene Species: Rat, Male and female

Sex: Male and female Application Route: Oral

Dose: 0, 100, 500, 1000 mg/kg

Exposure time: 13 wks Number of exposures: 7 d/wk NOEL: 1,000 mg/kg

Method: OCED Guideline 408

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 hr/d, 5 d/wk

NOEL: 3000 ppm

Method: OECD Guideline 413

Information given is based on data obtained from similar

substances.

Reproductive toxicity

1-Dodecene : Species: Rat

Sex: male

Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg

Exposure time: 44 D Number of exposures: daily Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg

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Species: Rat Sex: female

Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg

Exposure time: 41-55 D Number of exposures: daily Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg

1-Decene Species: Rat

Sex: male

Application Route: Oral diet Dose: 0, 100, 500, 1000 mg/kg Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg

Aspiration toxicity

1-Dodecene1-DeceneMay be fatal if swallowed and enters airways.May be fatal if swallowed and enters airways.

CMR effects

1-Dodecene : Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects. Teratogenicity: Not available

Reproductive toxicity: Animal testing did not show any effects

on fertility.

1-Decene Carcinogenicity: Not available

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.

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Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

1-Dodecene : No toxicity at the limit of solubility.

1-Decene LC50: 0.12 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar

substances.

Toxicity to daphnia and other aquatic invertebrates

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1-Dodecene : No toxicity at the limit of solubility.

1-Decene EC50: 0.56 - 1 mg/l

Exposure time: 48 h Species: Daphnia

Method: OECD Test Guideline 202

Toxicity to algae

1-Dodecene : No toxicity at the limit of solubility.

1-Decene EC50: 1 - 1.8 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (microalgae)

Method: OECD Test Guideline 201

Biodegradability

1-Dodecene : 74.1 - 80 %

Testing period: 28 d

Method: OECD Test Guideline 301

This material is expected to be readily biodegradable.

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

Ecotoxicology Assessment

Results of PBT assessment

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

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

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life.

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 : The product should not be allowed to enter drains, water

courses or the soil. 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.

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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)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, MARINE POLLUTANT, (1-DODECENE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (55 °C), MARINE POLLUTANT, (1-DODECENE, 1-DECENE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (1-DODECENE, 1-DECENE)

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (1-DODECENE, 1-DECENE)

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (1-DODECENE, 1-DECENE)

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 : Fire Hazard

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

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Quantity

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: 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 : 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

Potential

Ozone-Depletion : 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

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.

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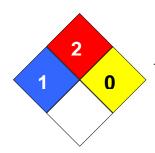
Notification status

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 On the inventory, or in compliance with the inventory Korea KECI 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: 2 Reactivity Hazard: 0



Further information

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	LD50	Lethal Dose 50%	
	Government Industrial Hygienists			
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect	
	Substances		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	

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	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		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%		

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