

**AlphaPlus® C14-16-18 Blend**

Version 1.5

Revision Date 2019-12-11

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

Product Name : AlphaPlus® C14-16-18 Blend

Use : Solvent

Company : Qatar Chemical Company LTD (QChem)
Amwal Tower, Omar Al Mukhtar St,
Al-Dafna (Zone 61)
PO Box 24646
Doha, QatarSDS Requests: (+974) 4484-7110
Technical Information: (+974) 4477-0047
Responsible Party: Product Safety Group
Email: MSDSInquiry@qchem.com.qa**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**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.

Classification


: Aspiration hazard, Category 1

Labeling

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

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.

SECTION 3: Composition/information on ingredients

Molecular formula : Mixture

Component	CAS-No.	Weight %
1-Tetradecene	1120-36-1	15 - 60
1-Hexadecene	629-73-2	20 - 50
1-Octadecene	112-88-9	10 - 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.

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

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

an unconscious person. If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point	:	124°C (255°F) Method: Cleveland Open Cup
Autoignition temperature	:	228°C (442°F)
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Standard procedure for chemical fires.
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.

Storage

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

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.

Use : Solvent

SECTION 8: Exposure controls/personal protection**Engineering measures**

Adequate ventilation to control airborne 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: Full-Face 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**

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

Form : Liquid
 Physical state : Liquid
 Color : Colorless
 Odor : Odorless

Safety data

Flash point : 124°C (255°F)
 Method: Cleveland Open Cup

Lower explosion limit : 0.5 %(V)

Upper explosion limit : 5.9 %(V)

Oxidizing properties : no

Autoignition temperature : 228°C (442°F)

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

Freezing point : 15°C (59°F)

Boiling point/boiling range : >250°C (>482°F)

Vapor pressure : < 0.01 MMHG
 at 20°C (68°F)

Relative density : 0.77
 at 25 °C (77 °F)

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

Viscosity, kinematic : 2 - 3 cSt
 at 40°C (104°F)

Relative vapor density : 7.7
 (Air = 1.0)

SECTION 10: Stability and reactivity

Reactivity : No decomposition if stored and applied as directed.

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

Possibility of hazardous reactions

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

- 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**AlphaPlus® C14-16-18 Blend**

Acute oral toxicity : LD50 Oral: > 5,000 mg/kg
Species: Rat
Method: Acute toxicity estimate

Acute inhalation toxicity

1-Tetradecene : Not classified due to data which are conclusive although insufficient for classification.
Information given is based on data obtained from similar substances.

1-Hexadecene LC50: > 8.5 mg/l Exposure time: 1 h
Species: Rat
Sex: male
Test atmosphere: dust/mist

1-Octadecene : Not classified due to data which are conclusive although insufficient for classification.
Information given is based on data obtained from similar substances.

AlphaPlus® C14-16-18 Blend

Acute dermal toxicity : LD50 Dermal: > 2,000 mg/kg
Species: Rabbit
Method: Acute toxicity estimate

AlphaPlus® C14-16-18 Blend

Skin irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

AlphaPlus® C14-16-18 Blend

Eye irritation : No eye irritation. Information refers to the main ingredient.

AlphaPlus® C14-16-18 Blend

Sensitization : Contains no substance or substances classified as sensitizing.

Repeated dose toxicity

1-Hexadecene : Species: Rat, Male and female
Sex: Male and female
Application Route: oral gavage
Dose: 100, 500, or 1000 mg/kg/day
Exposure time: 42- 51 days
Number of exposures: Daily
NOEL: 1000 mg/kg bw/day

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

Method: OECD Guideline 422
Information given is based on data obtained from similar substances.

Species: Rat, male
Sex: male
Application Route: oral gavage
Dose: 10, 101, 1010, 3365 mg/kg/day
Exposure time: 4 weeks
Number of exposures: 7 days/week
NOEL: 101 mg/kg bw/day
Method: OECD Test Guideline 407
Target Organs: Stomach
Information given is based on data obtained from similar substances.

Species: Rat, female
Sex: female
Application Route: oral gavage
Dose: 10, 101, 1010, 3365 mg/kg/day
Exposure time: 4 weeks
Number of exposures: 7 days/week
NOEL: 1010 mg/kg bw/day
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: oral gavage
Dose: 100, 500, 1000 mg/kg/day
Exposure time: 13 weeks
Number of exposures: 7 days/week
NOEL: 1000 mg/kg bw/day
Information given is based on data obtained from similar substances.

Species: Rat, Male and female
Sex: Male and female
Application Route: Inhalation
Dose: 300, 1000, 3000 ppm
Exposure time: 13 weeks
Number of exposures: 6 hrs/day, 5 days/week
NOEL: 3000 ppm
Information given is based on data obtained from similar substances.

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-Tetradecene

: Test Type: Ames test
Metabolic activation: with and without metabolic activation

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

	Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
1-Hexadecene	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative
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
Genotoxicity in vivo	
1-Tetradecene	: Test Type: Micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test) Result: negative
1-Hexadecene	Test Type: Micronucleus test Species: Mouse Dose: 1,000, 10,000, 25,000 ppm Result: negative

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

Reproductive toxicity

1-Tetradecene

: Species: Rat
 Sex: male
 Application Route: Oral diet
 Dose: 0, 100, 500, 1000 mg/kg
 Exposure time: 43-47 days
 Method: OECD Guideline 422
 NOAEL Parent: 1,000 mg/kg
 NOAEL F1: 1,000 mg/kg

Species: Rat
 Sex: female
 Application Route: Oral diet
 Dose: 0, 100, 500, 1000 mg/kg
 Exposure time: 46-47 days
 Method: OECD Guideline 422
 NOAEL Parent: 1,000 mg/kg
 NOAEL F1: 1,000 mg/kg

1-Hexadecene

Species: Rat
 Sex: female
 Application Route: oral gavage
 Dose: 100, 500, 1000 mg/kg/day
 Number of exposures: Daily
 Test period: 41 to 55 days
 Method: OECD Guideline 421
 NOAEL Parent: 1000 mg/kg bw/day
 NOAEL F1: 1000 mg/kg bw/day
 Information given is based on data obtained from similar substances.

Species: Rat
 Sex: male and female
 Application Route: oral gavage
 Dose: 100, 500, 1000 mg/kg/day
 Number of exposures: Daily
 Test period: 42- 51days
 Method: OECD Guideline 422
 NOAEL Parent: 1000 mg/kg bwday
 NOAEL F1: 1000 mg/kg bw/day
 Information given is based on data obtained from similar substances.

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® C14-16-18 Blend
 Aspiration toxicity**

: May be fatal if swallowed and enters airways.

CMR effects

1-Tetradecene

: Mutagenicity: Tests on bacterial or mammalian cell cultures

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

	did not show mutagenic effects. Reproductive toxicity: No toxicity to reproduction
1-Hexadecene	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
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® C14-16-18 Blend Further information	: Solvents may degrease the skin.

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

1-Tetradecene	: LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Test substance: yes Method: OECD Test Guideline 203 The product has low solubility in the test medium. An aqueous dispersion was tested.
1-Hexadecene	LL50: > 1000 mg/L Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 The product has low solubility in the test medium. An aqueous dispersion was tested.
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-Tetradecene	: EL50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test substance: yes Method: OECD Test Guideline 202 The product has low solubility in the test medium. An aqueous dispersion was tested.
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AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

1-Hexadecene EL50: < 1000 mg/L
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 static test Method: OECD Test Guideline 202
 The product has low solubility in the test medium. An aqueous dispersion was tested.

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-Tetradecene : EL50: > 1,000 mg/l
 Exposure time: 96 h
 Species: Selenastrum capricornutum (algae)
 static test Test substance: yes
 Method: OECD Test Guideline 201
 The product has low solubility in the test medium. An aqueous dispersion was tested.

1-Hexadecene EC50: > 1000 mg/L
 Exposure time: 72 h
 Species: Selenastrum capricornutum (algae)
 static test Method: OECD Test Guideline 201
 The product has low solubility in the test medium. An aqueous dispersion was tested.

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.

Toxicity to bacteria

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

Biodegradability : This material is expected to be readily biodegradable.
 Information refers to the main ingredient.

Elimination information (persistence and degradability)

Bioaccumulation : No data available

Mobility : No data available

Results of PBT assessment

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

1-Tetradecene	: Non-classified PBT substance, Non-classified vPvB substance
1-Hexadecene	: Non-classified PBT substance, Non-classified vPvB substance
1-Octadecene	: Non-classified PBT substance, Non-classified vPvB substance
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 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.

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

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

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

Other information	: OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y
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SECTION 15: Regulatory information**National legislation**

SARA 311/312 Hazards : Aspiration 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 302 RQ.

SARA 302 Threshold Planning Quantity : This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

SARA 313 Components : 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 SOCMII 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.

California Prop. 65 Components

: 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 (USA) TSCA : On or in compliance with the active portion of the TSCA inventory

Canada DSL : All components of this product are on the Canadian DSL

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 : A substance(s) in this product was not registered, notified to be registered, or exempted from registration

AlphaPlus® C14-16-18 Blend

Version 1.5

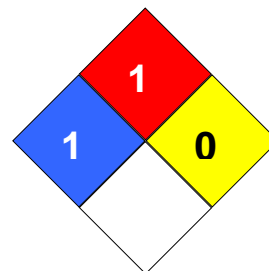
Revision Date 2019-12-11

by QChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance.

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: 1
 Fire Hazard: 1
 Reactivity Hazard: 0

**Further information**

Legacy SDS Number : 6855

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

AlphaPlus® C14-16-18 Blend

Version 1.5

Revision Date 2019-12-11

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%		