

Version 3.12 Revision Date 2018-08-02

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

Product information

Product Name : AlphaPlus® 1-Tetradecene (C14H28)

EC-No.Registration number

Chemical name	CAS-No.	Legal Entity
	EC-No.	Registration number
	Index No.	
1-Tetradecene	cene 1120-36-1 Qatar Chemical Company LTD (Q-C	
	214-306-9	01-2119472424-39-0004

Relevant Identified Uses

Supported

Manufacture

Use as an intermediate

Formulation

Use in coatings – industrial Use in coatings – professional Use in Coatings - Consumer

Use as a cleaning agent – industrial Use as a cleaning agent – professional Use as a cleaning agent – consumer

Use in Oil and Gas field drilling and production operations -

Industrial

Use in Oil and Gas field drilling and production operations -

Professional

Lubricants - Industrial Lubricants - Professional Lubricants - Consumer

Metal working fluids / rolling oils - Industrial Metal working fluids / rolling oils - Professional

Functional Fluids - Industrial Functional Fluids - Professional Functional Fluids - Consumer Use in mining – industrial

Use in polymer production – industrial

Company : Qatar Chemical Company LTD (QChem)

Amwal Tower, Omar Al Mukhtar St,

Al-Dafna (Zone 61) PO Box 24646 Doha, Qatar

SDS Requests: (+974) 4484-7110 Technical Information: (+974) 4477-0047 Responsible Party: Product Safety Group Email: MSDSInquiry@qchem.com.qa

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Local : Muntajat B.V. (MBV OR)

19th Floor, Tower E, WTC The Hague Prinses Margrietplantsoen 78-A, 2595 BR

The Hague, the Netherlands.

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 REGULATION (EC) No 1272/2008

Aspiration hazard, Category 1 H304:

May be fatal if swallowed and enters airways.

Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters

airways.

Precautionary Statements : Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

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Additional Labeling:

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH066

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

Synonyms : Tetradec-1-ene (C14H28)

1-Tetradecene (C14H28) NAO 14 (C14H28)

Molecular formula : C14H28

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
1-Tetradecene	1120-36-1 214-306-9	Asp. Tox. 1; H304	94
2-Butyl-1-Decene	51655-65-3	Asp. Tox. 1; H304	2
2-Ethyl-1-Dodecene	19780-34-8	Asp. Tox. 1; H304	2
2-Hexyl-1-Octene	19780-80-4	Asp. Tox. 1; H304	1
Related Materials			1

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

SECTION 4: First aid measures

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

sheet to the doctor in attendance. Symptoms of poisoning may

appear several hours later. Do not leave the victim

unattended.

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

advice. If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Never

give anything by mouth to an unconscious person. If

symptoms persist, call a physician. Take victim immediately to

hospital.

Do not ingest. If swallowed then seek immediate medical

assistance.

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SECTION 5: Firefighting measures

Flash point : 107 °C (225 °F)

Autoignition temperature : 235 °C (455 °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.

Hazardous decomposition

products

: No data available.

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.

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

SECTION 7: Handling and storage

Handling

Advice on safe handling : Do not breathe vapors/dust. For personal protection see

section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance

with local and national regulations.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place.

Observe label precautions. Electrical installations / working

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materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Engineering measures

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:.

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. If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide

employee skin care programmes.

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.

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : Liquid
Physical state : Liquid
Color : Colorless

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Safety data

Flash point : 107 °C (225 °F)

Lower explosion limit : > 0.5 %(V)

Upper explosion limit : < 5,4 %(V)

Oxidizing properties : no

Autoignition temperature : 235 °C (455 °F)

Molecular formula : C14H28

Molecular weight : 196,42 g/mol

pH : Not applicable

Pour point : No data available

Melting point/range -13,9 °C (7,0 °F)

Boiling point/boiling range : 251 °C (484 °F)

Vapor pressure : 0,01 MMHG

at 25 °C (77 °F)

< 0,10 kPa

at 65 °C (149 °F)

Relative density : 0,77

at 15,6 °C (60,1 °F)

Density : 775 kg/m3

at 15 °C (59 °F)

774 kg/m3

at 25 °C (77 °F)

750 kg/m3

at 50 °C (122 °F)

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

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 2,61 cSt

at 20 °C (68 °F)

Relative vapor density : 6,8

(Air = 1.0)

Evaporation rate : No data available

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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 : No data available.

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

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: No data available

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

SECTION 11: Toxicological information

AlphaPlus® 1-Tetradecene (C14H28)

Acute oral toxicity : LD50: > 5.000 mg/kg

Species: Rat

Sex: male and female

Information given is based on data obtained from similar

substances.

AlphaPlus® 1-Tetradecene (C14H28)

Acute inhalation toxicity : LC50: > 5 mg/l

Exposure time: 4 h Species: Rat

Test atmosphere: dust/mist Method: Acute toxicity estimate

Information given is based on data obtained from similar

substances.

Not classified due to data which are conclusive although

insufficient for classification.

AlphaPlus® 1-Tetradecene (C14H28)

Acute dermal toxicity : LD50 Dermal: > 2.020 mg/kg

Species: Rabbit Sex: male and female

Information given is based on data obtained from similar

substances.

AlphaPlus® 1-Tetradecene (C14H28)

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

removal of natural fat from the skin resulting in desiccation of

he skin.

AlphaPlus® 1-Tetradecene (C14H28)

Eye irritation : No eye irritation

Information given is based on data obtained from similar

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substances.

AlphaPlus® 1-Tetradecene (C14H28)

Sensitization : Did not cause sensitization on laboratory animals. Information

given is based on data obtained from similar substances.

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

AlphaPlus® 1-Tetradecene (C14H28)

Aspiration toxicity : May be fatal if swallowed and enters airways.

Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity

hazard.

CMR effects

1-Tetradecene : Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects.

Reproductive toxicity: No toxicity to reproduction

AlphaPlus® 1-Tetradecene (C14H28)

Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

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.

Toxicity to daphnia and other aquatic invertebrates

1-Tetradecene : EL50: > 1.000 mg/l

Exposure time: 48 h

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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.

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.

Elimination information (persistence and degradability)

Biodegradability : According to the results of tests of biodegradability this

product is considered as being readily biodegradable.

Ecotoxicology Assessment

Results of PBT assessment

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

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.

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

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,

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etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

SECTION 15: Regulatory information

National legislation

Chemical Safety Assessment

Ingredients : tetradec-1-ene A Chemical Safety Assessment 214-306-9

has been carried out for this

substance.

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

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Notification status

Europe REACH On the inventory, or in compliance with the inventory United States of America (USA) On the inventory, or in compliance with the inventory

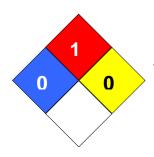
TSCA

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 On the inventory, or in compliance with the inventory Japan ENCS 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: 0

Fire Hazard: 1 Reactivity Hazard: 0



Further information

Legacy SDS Number : QCHEM013

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		
	Chemicals Association				
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of		

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	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%		

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

H304 May be fatal if swallowed and enters airways.

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