

**AlphaPlus® C20-24**

Version 1.7

Revision Date 2015-02-18

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

Product Name : AlphaPlus® C20-24

**Company**: Qatar Chemical Company LTD (QChem)  
1st Floor Salam Tower Al Corniche  
P.O. 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:**

North America: CHEMTREC 800.424.9300 or 703.527.3887

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:** Wax, Solid **Physical state:** Solid **Color:** White

OSHA Hazards : Aspiration hazard

**Classification**


: Aspiration hazard , Category 1

**Labeling**

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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 or doctor/ physician.  
 P331 Do NOT induce vomiting.  
**Storage:**  
 P405 Store locked up.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity:**

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**SECTION 3: Composition/information on ingredients**

Synonyms : NAO 20-24  
C20-24 Alpha Olefin Fraction

Molecular formula : UVCB

Component	CAS-No.	Weight %
Alkenes, C20-24 $\alpha$ -	93924-10-8	100
1-Eicosene	3452-07-1	35 - 55
1-Docosene	1599-67-3	25 - 45
1-Tetracosene	10192-32-2	10 - 26
1-Hexacosene	18835-33-1	0 - 2
1-Octadecene	112-88-9	0 - 0.1

**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.

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- |                        |   |   |
|------------------------|---|---|
| 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. Do not give milk or alcoholic beverages. 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                                    | : | 183 °C (361 °F)<br>Method: PMCC  |
| Autoignition temperature                       | : | 239 °C (462 °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                  | : | Provide appropriate exhaust ventilation at places where dust is formed.  |
| Hazardous decomposition products               | : | Carbon oxides.   |

**SECTION 6: Accidental release measures**

- |                           |   |   |
|---------------------------|---|---|
| Personal precautions      | : | Use personal protective equipment. Avoid dust formation. Avoid breathing dust. 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   | : | Keep in suitable, closed containers for disposal.   |

**SECTION 7: Handling and storage****Handling**

- |                         |   |  |
|-------------------------|---|--|
| Advice on safe handling | : | Avoid formation of respirable particles. 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 |
|-------------------------|---|--|

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national regulations.

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

**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****Personal protective equipment**

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Dust impervious protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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 : Wax, Solid

Physical state : Solid

Color : White

**Safety data**

Flash point : 183 °C (361 °F)  
Method: PMCC

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : 239 °C (462 °F)

Molecular formula : UVCB

Molecular weight : Varies

pH : Not applicable

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Melting point/range	: 35 °C (95 °F)
pour point	No data available
Boiling point/boiling range	: 342 - 390 °C (648 - 734 °F)
Vapor pressure	: < 0.01 kPa at 65 °C (149 °F)
Relative density	: 0.8, 15.6 °C(60.1 °F)
Density	: 815 kg/m <sup>3</sup> at 15 °C (59 °F)  792 kg/m <sup>3</sup> at 50 °C (122 °F)
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: 6.356 cSt at 40 °C (104 °F)
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable

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

**SECTION 11: Toxicological information****Acute oral toxicity**

Alkenes, C20-24  $\alpha$ - : LD50 Oral: > 5000 mg/kg bw  
Species: rat  
Sex: male and female

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1-Octadecene

Method: OECD Test Guideline 423

LD50: > 10,000 mg/kg

Species: rat

Sex: male and female

Method: OECD Test Guideline 401

Test substance: no

Information given is based on data obtained from similar substances.

**Acute inhalation toxicity**

Alkenes, C20-24  $\alpha$ - : LC50: 110.1 mg/LExposure time: 4 h

Species: rat

Sex: male

Test atmosphere: vapor

Method: OECD Test Guideline 403

Information given is based on data obtained from similar substances.

**AlphaPlus® C20-24  
Skin irritation**

: No skin irritation.

**AlphaPlus® C20-24  
Eye irritation**

: Vapors may cause irritation to the eyes, respiratory system and the skin.

**Sensitization**

Alkenes, C20-24  $\alpha$ - : Did not cause sensitization on laboratory animals.

1-Octadecene

: Did not cause sensitization on laboratory animals.

**Repeated dose toxicity**

Alkenes, C20-24  $\alpha$ - : Species: rat, Male and female

Sex: Male and female

Application Route: oral gavage

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

Exposure time: 42-51 days

Number of exposures: Daily

NOEL: 1000 mg/kg bw/day

Method: OECD Guideline 422

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Species: rat, Male and female  
 Sex: Male and female  
 Application Route: oral gavage  
 Dose: 100, 500, 1000 mg/kg/d  
 Exposure time: 13 weeks  
 Number of exposures: 7 d/wk  
 NOEL: 1000 mg/kg bw/day  
 Method: OCED Guideline 408

Species: rat, Male and female  
 Sex: Male and female  
 Application Route: Inhalation  
 Dose: 300, 1000, 3000 ppm  
 Exposure time: 13 weeks  
 Number of exposures: 5 d/wk, 6 hrs/d  
 NOEL: 3000 ppm  
 Method: OECD Guideline 413

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.

**Reproductive toxicity**Alkenes, C20-24  $\alpha$ -

: Species: rat  
 Sex: male and female  
 Application Route: oral gavage  
 Dose: 100, 500, 1000 mg/kg/day  
 Number of exposures: Daily  
 Test period: 41-55 days  
 Method: OECD Guideline 422  
 NOAEL Parent: 1000 mg/kg bw/day  
 NOAEL F1: 1000 mg/kg bw/day

Species: rat  
 Sex: male and female  
 Application Route: oral gavage  
 Dose: 100, 500, 1000 mg/kg/d  
 Number of exposures: Daily  
 Test period: 42-51days  
 Method: OECD Guideline 421  
 NOAEL Parent: 1000 mg/kg bw/day  
 NOAEL F1: 1000 mg/kg bw/day

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.

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**AlphaPlus® C20-24  
Aspiration toxicity**

: Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.  
May be fatal if swallowed and enters airways.

**CMR effects**Alkenes, C20-24  $\alpha$ -

: Carcinogenicity: Not available  
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® C20-24  
Further information**

: Solvents may degrease the skin.

**SECTION 12: Ecological information****Toxicity to fish**Alkenes, C20-24  $\alpha$ -

: LL50: > 1,000 mg/l  
Exposure time: 96 h  
Species: *Oncorhynchus mykiss* (rainbow trout)  
semi-static test 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**Alkenes, C20-24  $\alpha$ -

: EL50: 1,000 mg/l  
Exposure time: 48 h  
Species: *Daphnia magna* (Water flea)  
static test Method: OECD Test Guideline 202

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.



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**Toxicity to algae**

Alkenes, C20-24  $\alpha$ - : EL50: > 1,000 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

**Bioaccumulation**

Alkenes, C20-24  $\alpha$ - : Bioconcentration factor (BCF): < 436.5  
 This material is not expected to bioaccumulate.

1-Octadecene : Bioconcentration factor (BCF): 5,128  
 Method: Estimated based on individual component values.

**Biodegradability**

Alkenes, C20-24  $\alpha$ - : This material is expected to be readily biodegradable.  
 Information given is based on data obtained from similar substances.

1-Octadecene : This material is expected to be readily biodegradable.  
 Information given is based on data obtained from similar substances.

**Ecotoxicology Assessment**

Results of PBT assessment  
 Alkenes, C20-24  $\alpha$ - : Non-classified PBT substance, Non-classified vPvB substance

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

Additional ecological information : 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.

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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 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.

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**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** : Acute Health Hazard

**EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

**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** : SARA 302: 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** : SARA 313: 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).

**US State Regulations**

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**Pennsylvania Right To Know**

: Alkenes, C20-24  $\alpha$ - - 93924-10-8  
 1-Eicosene - 3452-07-1  
 1-Docosene - 1599-67-3  
 1-Tetracosene - 10192-32-2

**New Jersey Right To Know**

: Alkenes, C20-24  $\alpha$ - - 93924-10-8  
 1-Eicosene - 3452-07-1  
 1-Docosene - 1599-67-3  
 1-Tetracosene - 10192-32-2  
 1-Hexacosene - 18835-33-1

**California Prop. 65  
Ingredients**

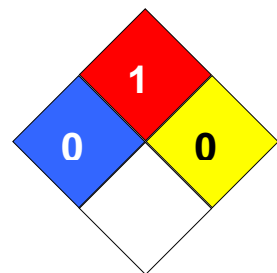
: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**Notification status**

Europe REACH : 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  
 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 : QCHEM016

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

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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
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%		