



## AlphaPlus® C24-28

Version 2.13

Revision Date 2018-08-03

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

#### Product information

Product Name : AlphaPlus® C24-28

#### EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Alpha Olefin Fraction, C24-28	93924-11-9 300-203-7	Qatar Chemical Company LTD (Q-Chem) 01-2119485392-33-0001

Relevant Identified Uses : Manufacture  
Supported Use as an intermediate  
Formulation  
Other consumer uses

**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

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

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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**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

**Label elements****Labeling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

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

Synonyms : C24-C28 Alpha Olefin Fraction  
 NAO 24-28

Molecular formula : UVCB

**Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Alpha Olefin Fraction, C24-28	93924-11-9 300-203-7		100

Contains no hazardous ingredients according to GHS. :

**SECTION 4: First aid measures**

General advice : Do not leave the victim unattended.

If inhaled : If symptoms persist, call a physician.  
 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses. Protect unharmed eye. 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.  
 Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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**SECTION 5: Firefighting measures**

Flash point	:	218 °C (424 °F) Method: PMCC
Autoignition temperature	:	249 °C (480 °F)
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	:	Avoid dust formation.
Methods for cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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

Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.

**Storage**

Requirements for storage areas and containers	:	Electrical installations / working materials must comply with the technological safety standards.
Advice on common storage	:	No materials to be especially mentioned.

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

PNEC	:	Fresh water Value: 0,001 mg/l
PNEC	:	Marine water Value: 0,001 mg/l

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**Personal protective equipment**

Respiratory protection	:	No personal respiratory protective equipment normally required.
Eye protection	:	Safety glasses.
Skin and body protection	:	Protective suit.
Hygiene measures	:	General industrial hygiene practice.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance**

Form	:	Wax, Solid
Physical state	:	Solid
Color	:	White
Odor	:	No odor

**Safety data**

Flash point	:	218 °C (424 °F) Method: PMCC
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Oxidizing properties	:	no
Autoignition temperature	:	249 °C (480 °F)
Molecular formula	:	UVCB
Molecular weight	:	Varies
pH	:	Not applicable
Melting point/range	:	63 °C (145 °F) Method: ASTM D-87
Boiling point/boiling range	:	390 - 430 °C (734 - 806 °F)
Vapor pressure	:	< 0,01 kPa at 65 °C (149 °F)
Relative density	:	0,82 at 15,6 °C (60,1 °F)
Density	:	821 kg/m <sup>3</sup> at 15 °C (59 °F)  799 kg/m <sup>3</sup>

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	at 50 °C (122 °F)
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: 2,5 cSt at 98,9 °C (210,0 °F)
Relative vapor density	: 0,82 at 15,6 °C (60,1 °F)
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**

Alpha Olefin Fraction, C24-28 : LD50: >5000 mg/kg  
Species: Rat  
Information given is based on data obtained from similar substances.

LD50: > 2000 - < 5000 mg/kg  
Species: Rat  
Information given is based on data obtained from similar substances.

**Acute inhalation toxicity**

Alpha Olefin Fraction, C24-28 : LC50: > 2.1 mg/LExposure time: 4 h  
Species: Rat  
Sex: male and female  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Information given is based on data obtained from similar substances.

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LC50: 110.1 mg/L  
 Exposure time: 4 h  
 Species: Rat  
 Test atmosphere: vapor  
 Method: OECD Test Guideline 403  
 Information given is based on data obtained from similar substances.

LC50: > 8.5 mg/L  
 Exposure time: 1 h  
 Species: Rat  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 Information given is based on data obtained from similar substances.

**Acute dermal toxicity**

Alpha Olefin Fraction, C24-28 : LD50: > 2020 mg/kg  
 Species: Rabbit  
 Method: OECD Test Guideline 402  
 Information given is based on data obtained from similar substances.

**Skin irritation**

Alpha Olefin Fraction, C24-28 : No skin irritation  
 Information given is based on data obtained from similar substances.

**Eye irritation**

Alpha Olefin Fraction, C24-28 : No eye irritation  
 Information given is based on data obtained from similar substances.

**Sensitization**

Alpha Olefin Fraction, C24-28 : Did not cause sensitization on laboratory animals.  
 Information given is based on data obtained from similar substances.

**Repeated dose toxicity**

Alpha Olefin Fraction, C24-28 : 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 d/wk  
 NOEL: 1000 mg/kg bw/day

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/d, 5 d/wk  
 NOEL: 3000 ppm

**Reproductive toxicity**

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Alpha Olefin Fraction, C24-28 : Species: Rat  
 Sex: male and 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/day  
 NOAEL F1: 1000 mg/kg/day

Species: Rat  
 Sex: male and female  
 Application Route: oral gavage  
 Dose: 100, 500, 1000 mg/kg/day  
 Number of exposures: Daily  
 Test period: 42- 51 days  
 Method: OECD Guideline 422  
 NOAEL Parent: 1000 mg/kg/day  
 NOAEL F1: 1000 mg/kg/day

**AlphaPlus® C24-28  
Aspiration toxicity**

: No aspiration toxicity classification.

**CMR effects**

Alpha Olefin Fraction, C24-28 : 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

**AlphaPlus® C24-28  
Further information**

: No data available.

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

Alpha Olefin Fraction, C24-28 : LL50: > 1000 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**

Alpha Olefin Fraction, C24-28 : EL100: 1000 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**

Alpha Olefin Fraction, C24-28 : EL50: >1000 mg/l  
 Exposure time: 72 h  
 Species: Selenastrum capricornutum (algae)  
 Method: OECD Test Guideline 201  
 Information given is based on data obtained from similar substances.

**Bioaccumulation**

Alpha Olefin Fraction, C24-28 : This material is not expected to bioaccumulate.

**Biodegradability**

Alpha Olefin Fraction, C24-28 : This material is not expected to be readily biodegradable.

**Ecotoxicology Assessment**

Results of PBT assessment  
 Alpha Olefin Fraction, C24-28 : 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.

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.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**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.



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When shipment is offered for transport above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S.,(ALPHA OLEFIN FRACTION, C24-28), 9, III

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

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

When shipment is offered for transport above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S.,(ALPHA OLEFIN FRACTION, C24-28), 9, III (218°C)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

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

When shipment is offered for transport above 100°C it is regulated as:

UN3257, 9: NOT PERMITTED FOR TRANSPORT

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

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

When shipment is offered for transport above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S.,(ALPHA OLEFIN FRACTION, C24-28), 9, III, (D)

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

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

When shipment is offered for transport above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S.,(ALPHA OLEFIN FRACTION, C24-28), 9, III

**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.

When shipment is offered for transport above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S.,(ALPHA OLEFIN FRACTION, C24-28), 9, III

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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**

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

**Water contaminating class (Germany)** : nwg not water endangering

**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 the inventory, or in compliance with the inventory

Canada DSL : On the inventory, or in compliance with the inventory

Australia AICS : Not 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

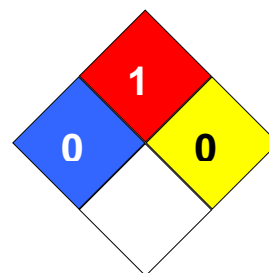
Korea KECI : On the inventory, or in compliance with the inventory

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 : QCHEM017

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

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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%		