



## C14-16-18 Blend

Version 1.11

Revision Date 2023-01-25

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

#### 1.1 Product identifier

##### Product information

Product Name : C14-16-18 Blend

##### EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
1-Tetradecene	1120-36-1 214-306-9	Qatar Chemical Company LTD (Q-Chem) 01-2119472424-39-0004
1-Hexadecene	629-73-2 211-105-8	Qatar Chemical Company LTD (Q-Chem) 01-2119474686-23-0003
1-Octadecene	112-88-9 204-012-9	Qatar Chemical Company LTD (Q-Chem) 01-2119474213-44-0002

#### 1.2

##### Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses Supported : Manufacture  
 Use as an intermediate  
 Formulation  
 Use in coatings – industrial  
 Use in coatings – professional  
 Use in Coatings - Consumer  
 Use in Oil and Gas field drilling and production operations - Industrial  
 Use in Oil and Gas field drilling and production operations – Professional  
 Functional Fluids - Consumer  
 Use in mining – industrial

#### 1.3

##### Details of the supplier of the safety data sheet

**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) 4476-7145  
 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.  
 Tel: +31702055630  
 Email: info.netherlands@muntajatbv.com

**1.4****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

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

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Gifflinjen): +45 8212 1212

Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week)

Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic

Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000

Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606

Slovakia: +421 2 5477 4166

Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group  
 E-mail address : SDS@CPChem.com

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Website : www.CPChem.com

**SECTION 2: Hazards identification****2.1****Classification of the substance or mixture  
REGULATION (EC) No 1272/2008**

Aspiration hazard, Category 1

H304:

May be fatal if swallowed and enters airways.

**2.2****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 + P310IF SWALLOWED: Immediately call a  
POISON CENTER/ doctor.  
Do NOT induce vomiting.

P331

**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:

- 1120-36-1            1-Tetradecene
- 629-73-2            1-Hexadecene
- 112-88-9            1-Octadecene

**2.3****Other hazards**Results of PBT and vPvB  
assessment: This substance/mixture contains no components  
considered to be either persistent, bioaccumulative and  
toxic (PBT), or very persistent and very bioaccumulative  
(vPvB) at levels of 0.1% or higher.**SECTION 3: Composition/information on ingredients****3.1 - 3.2****Substance or Mixture**

Molecular formula : Mixture

**Hazardous ingredients**

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Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
<b>1-Tetradecene</b>	<b>1120-36-1</b> <b>214-306-9</b>	Asp. Tox. 1; H304	15 - 60	
1-Hexadecene	629-73-2 211-105-8	Asp. Tox. 1; H304	20 - 50	
1-Octadecene	112-88-9 204-012-9	Asp. Tox. 1; H304	10 - 40	

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

**SECTION 4: First aid measures****4.1****Description of 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 an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**4.2 Most important symptoms and effects, both acute and delayed****Notes to physician**

Symptoms : No data available.

Risks : No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : No data available.

**SECTION 5: Firefighting measures**

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

Autoignition temperature : 228°C (442°F)

**5.1****Extinguishing media**

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Unsuitable extinguishing media : High volume water jet.

**5.2****Special hazards arising from the substance or mixture**

Specific hazards during fire fighting : Standard procedure for chemical fires.

**5.3****Advice for firefighters**

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****6.1****Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Ensure adequate ventilation.

**6.2****Environmental precautions**

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.

**6.3****Methods and materials for containment and cleaning up**

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.

**6.4****Reference to other sections**

Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.

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****7.1****Precautions for safe 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.

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Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**7.2****Conditions for safe storage, including any incompatibilities****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****8.1****Control parameters  
Ingredients with workplace control parameters****SE**

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
1-Hexadecene	SE AFS	NGV	350 mg/m3	
	SE AFS	KGV	500 mg/m3	V,
1-Octadecene	SE AFS	NGV	350 mg/m3	
	SE AFS	KGV	500 mg/m3	V,

V Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas

**8.2****Exposure controls  
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 : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as: Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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

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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.

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****9.1****Information on basic physical and chemical properties****Appearance**

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)

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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****10.1**

**Reactivity** : No decomposition if stored and applied as directed.

**10.2**

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

**10.3****Possibility of hazardous reactions**

**Hazardous reactions** : Further information: No decomposition if stored and applied as directed.

**10.4**

**Conditions to avoid** : No data available.

**10.5**

**Materials to avoid** : No data available.

**10.6**

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

**SECTION 11: Toxicological information****11.1****Information on toxicological effects****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

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	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.
<b>C14-16-18 Blend Acute dermal toxicity</b>	: LD50 Dermal: > 2.000 mg/kg Species: Rabbit Method: Acute toxicity estimate
<b>C14-16-18 Blend Skin irritation</b>	: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
<b>C14-16-18 Blend Eye irritation</b>	: No eye irritation. Information refers to the main ingredient.
<b>C14-16-18 Blend Sensitization</b>	: Contains no substance or substances classified as sensitizing.
<b>Repeated dose toxicity</b>	
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 Method: OECD Guideline 422 Information given is based on data obtained from similar substances.

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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  
 Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
 Result: negative

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	<p>Test Type: Mammalian cell gene mutation assay            Metabolic activation: with and without metabolic activation            Method: OECD Guideline 476            Result: negative</p> <p>Test Type: Chromosome aberration test in vitro            Method: OECD Guideline 473            Result: negative</p>
1-Hexadecene	<p>Test Type: Ames test            Metabolic activation: with and without metabolic activation            Result: negative</p> <p>Test Type: Ames test            Metabolic activation: with and without metabolic activation            Result: negative</p> <p>Test Type: Mammalian cell gene mutation assay            Metabolic activation: with and without metabolic activation            Result: negative</p> <p>Test Type: Mammalian cell gene mutation assay            Metabolic activation: with and without metabolic activation            Method: OECD Guideline 476            Result: negative</p> <p>Test Type: Chromosome aberration test in vitro            Result: negative</p> <p>Test Type: Chromosome aberration test in vitro            Result: negative</p>
1-Octadecene	<p>Test Type: Ames test            Metabolic activation: with and without metabolic activation            Method: OECD Test Guideline 471            Result: negative</p> <p>Test Type: Chromosome aberration test in vitro            Test system: rodent hepatocytes            Method: OECD Test Guideline 473            Result: negative</p>
<b>Genotoxicity in vivo</b>	
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
<b>Reproductive toxicity</b>	
1-Tetradecene	: Species: Rat Sex: male Application Route: Oral diet

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	<p>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</p> <p>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</p>
1-Hexadecene	<p>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.</p> <p>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.</p>
1-Octadecene	<p>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.</p>
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<b>Aspiration toxicity</b>	: May be fatal if swallowed and enters airways.
<b>CMR effects</b>	
1-Tetradecene	: Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Reproductive toxicity: No toxicity to reproduction
1-Hexadecene	Carcinogenicity: Not classifiable as a human carcinogen.

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1-Octadecene

Mutagenicity: Did not show mutagenic effects in animal experiments.  
 Teratogenicity: Did not show teratogenic effects in animal experiments.  
 Reproductive toxicity: No toxicity to reproduction

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

**11.2****Information on other hazards****C14-16-18 Blend****Further information**

Endocrine disrupting properties

: Solvents may degrease the skin.  
 : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 12: Ecological information****12.1****Toxicity****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

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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.

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

**12.2****Persistence and degradability**

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

**12.3**

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**Bioaccumulative potential**

Elimination information (persistence and degradability)

Bioaccumulation : No data available

**12.4****Mobility in soil**

Mobility : No data available

**12.5****Results of PBT and vPvB assessment**

Results of PBT assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6****Endocrine disrupting properties**

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7****Other adverse effects**

Additional ecological information : No data available

**12.8****Additional Information****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****13.1****Waste treatment methods**

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.

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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****14.1 - 14.7****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.

<b>Other information</b>	<b>: OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y</b>
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**Maritime transport in bulk according to IMO instruments**

**SECTION 15: Regulatory information****15.1****Safety, health and environmental regulations/legislation specific for the substance or mixture  
National legislation**

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**Water hazard class (Germany)** : WGK 1 slightly water endangering

**15.2****Chemical Safety Assessment**

**Components** : tetradec-1-ene A Chemical Safety Assessment 214-306-9  
has been carried out for this substance.

**Chemical Safety Assessment**

hexadec-1-ene A Chemical Safety Assessment 211-105-8  
has been carried out for this substance.

**Chemical Safety Assessment**

octadec-1-ene A Chemical Safety Assessment 204-012-9  
has been carried out for this substance.

**Major Accident Hazard Legislation** : ZEU\_SEVES3 Update:  
Not applicable

**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

Other 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 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 or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS : On the inventory, or in compliance with the inventory

China IECSC : On the inventory, or in compliance with the inventory

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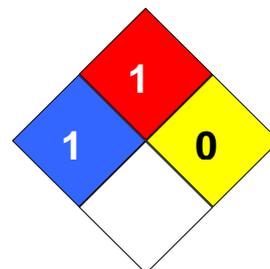
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Taiwan TCSI : On the inventory, or in compliance with the inventory

**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%
AIIC	Australian Inventory of Industrial Chemicals	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	TWA	Time Weighted Average

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	Substances in China		
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%	ATE	Acute toxicity estimate

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

H304                      May be fatal if swallowed and enters airways.