

Version 1.9 Revision Date 2022-04-25

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

**Product information** 

Product Name : AlphaPlus® C16-18 Blend

Material : 1125471, 1106141, 1106172, 1080558, 1084585, 1037036,

1037037, 1037038, 1037039

Company : Chevron Phillips Chemical Company LP

Normal Alpha Olefins (NAO) 10001 Six Pines Drive The Woodlands, TX 77380

## **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 (Giftlinjen): +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

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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 Website : www.CPChem.com

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Aspiration hazard, Category 1

Labeling

Symbol(s)

Signal Word : Danger

Hazard Statements : H304: May be fatal if swallowed and enters airways.

Precautionary Statements : Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

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

Molecular formula : Mixture

Component	CAS-No.	Weight %
1-Hexadecene	629-73-2	50 - 70
1-Octadecene	112-88-9	30 - 50

#### **SECTION 4: First aid measures**

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

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

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

advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

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

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

If swallowed : Keep respiratory tract clear. 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 : 132°C (270°F)

Autoignition temperature : 227°C (441°F)

Unsuitable extinguishing

media

High volume water jet.

Specific hazards during fire

fighting

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

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.

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Hazardous decomposition

products

Carbon oxides.

#### **SECTION 6: Accidental release measures**

Personal precautions : Use personal protective equipment. Avoid dust formation.

Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Keep in suitable, closed

containers for disposal.

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

#### Handling

Advice on safe handling : Do not breathe vapors/dust. Avoid contact with skin and eyes.

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose

of rinse water in accordance with local and national

regulations.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

#### Storage

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**

#### **Engineering measures**

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

### Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved

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respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors, Dusts and Mists. Use a positive pressure, air-supplying respirator 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 which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Protective suit.

Safety shoes.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

# **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

**Appearance** 

Form : solid

liquid

Physical state : liquid

Color : Clear, Colorless

Safety data

Flash point : 132°C (270°F)

Lower explosion limit : 0.4 %(V)

Upper explosion limit : 6.3 %(V)

Oxidizing properties : no

Autoignition temperature : 227°C (441°F)

Thermal decomposition : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

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Freezing point : 8-12°C (46-54°F)

Boiling point/boiling range : 295°C (563°F)

Vapor pressure : 1.00 MMHG

at 24°C (75°F)

Relative density : 0.78

at 25 °C (77 °F)

Density : 0.78 G/ML

at 25°C (77°F)

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

Relative vapor density : 8.2

(Air = 1.0)

#### **SECTION 10: Stability and reactivity**

**Reactivity** : Stable at normal ambient temperature and pressure.

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

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

directed.

Conditions to avoid : No data available.

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

chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available

**Hazardous decomposition** 

products

: Carbon oxides

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

# **SECTION 11: Toxicological information**

**Acute oral toxicity** 

1-Hexadecene : LD50: 10 g/kg

Species: Rat

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Sex: male and female

Method: OECD Test Guideline 401

Test substance: yes

1-Octadecene 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

1-Hexadecene : LC50: > 8.5 mg/lExposure time: 1 h

Species: Rat Sex: male

Test atmosphere: dust/mist

1-Octadecene Not classified due to data which are conclusive although

insufficient for classification.

Information given is based on data obtained from similar

substances.

**Acute dermal toxicity** 

1-Hexadecene : LD50: > 2020 mg/kg

Species: Rabbit Sex: male and female

Information given is based on data obtained from similar

substances.

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Skin irritation

: Mild skin irritation

According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

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

the skin.

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Eye irritation

: No eye irritation

Vapors may cause irritation to the eyes, respiratory system

and the skin.

Sensitization

1-Hexadecene : Did not cause sensitization on laboratory animals.

1-Octadecene Did not cause sensitization on laboratory animals.

Repeated dose toxicity

1-Hexadecene : Species: Rat, Male and female

Sex: Male and female

Application Route: oral gavage Dose: 100, 500, or 1000 mg/kg/day

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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.

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

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1-Hexadecene : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Mammalian cell gene mutation assay

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Mammalian cell gene mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

1-Octadecene Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: rodent hepatocytes Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo

1-Hexadecene : Test Type: Micronucleus test

Species: Mouse

Dose: 1,000, 10,000, 25,000 ppm

Result: negative

Reproductive toxicity

1-Hexadecene : Species: Rat

Sex: female

Application Route: oral gavage
Dose: 100, 500, 1000 mg/kg/day
Number of exposures: Daily
Test period: 41 to 55 days
Method: OECD Guideline 421
NOAEL Parent: 1000 mg/kg bw/day
NOAEL F1: 1000 mg/kg bw/day

Information given is based on data obtained from similar

substances.

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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 bw/day NOAEL F1: 1000 mg/kg bw/day

Information given is based on data obtained from similar

substances.

1-Octadecene Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg

Information given is based on data obtained from similar

substances.

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

**CMR** effects

1-Hexadecene : Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Did not show mutagenic effects in animal

experiments.

Teratogenicity: Did not show teratogenic effects in animal

experiments.

Reproductive toxicity: No toxicity to reproduction

1-Octadecene Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects. Teratogenicity: Not available

Reproductive toxicity: No toxicity to reproduction

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**Further information** : Solvents may degrease the skin.

# **SECTION 12: Ecological information**

Toxicity to fish

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

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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-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-Hexadecene : EC50: > 1000 mg/L

Exposure time: 72 h

Species: Selenastrum capricornutum (algae) static test Method: OECD Test Guideline 201

The product has low solubility in the test medium. An aqueous

dispersion was tested.

1-Octadecene EC50: > 1,000 mg/l

Exposure time: 72 h

Species: Raphidocellus subcapitata (algae)

Method: OECD Test Guideline 201

Information given is based on data obtained from similar

substances.

## **Toxicity to bacteria**

1-Octadecene : NOEC: 3 mg/l

Exposure time: 120 h Respiration inhibition

Biodegradability

1-Hexadecene : According to the results of tests of biodegradability this

product is considered as being readily biodegradable.

1-Octadecene : This material is expected to be readily biodegradable.

Information given is based on data obtained from similar

substances.

Bioaccumulation

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1-Hexadecene : Due to the distribution coefficient n-octanol/water,

accumulation in organisms is possible.

Mobility

1-Hexadecene : No data available

1-Octadecene : No data available

Results of PBT assessment

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

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

Additional ecological

information

: No data available

**Ecotoxicology Assessment** 

Short-term (acute) aquatic hazard

1-Hexadecene : This material is not expected to be harmful to aquatic

organisms.

1-Octadecene : This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic hazard

1-Hexadecene : This material is not expected to be harmful to aquatic

organisms.

1-Octadecene : This material is not expected to be harmful to aquatic

organisms.

### **SECTION 13: Disposal considerations**

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate

ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers.

#### **SECTION 14: Transport information**

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

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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.

Other information : OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

### **SECTION 15: Regulatory information**

**National legislation** 

SARA 311/312 Hazards : Aspiration hazard

CERCLA Reportable : This material does not contain any components with a CERCLA RQ.

Quantity

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SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: This material does not contain any components with a section

302 EHS TPQ.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Components : This material does not contain any chemical components with

> known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

Potential

Ozone-Depletion : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **US State Regulations**

Pennsylvania Right To Know

: 1-Hexadecene - 629-73-2 1-Octadecene - 112-88-9

Notification status

Europe REACH This mixture contains only ingredients which have been

registered according to Regulation (EU) No. 1907/2006

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(REACH).

Switzerland CH INV : On the inventory, or in compliance with the inventory

United States of America (USA) : On or in compliance with the active portion of the

TSCA TSCA inventory

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

DSL

Other AIIC : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory

Japan ENCS

Con the inventory, or in compliance with the inventory

Korea KECI

Philippines PICCS

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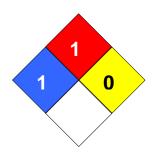
notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Taiwan TCSI : 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: 1

Fire Hazard: 1 Reactivity Hazard: 0



#### **Further information**

Legacy SDS Number : 6749

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%		
AICS	Australia, Inventory of Chemical	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		

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	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 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%		

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