

**AlphaPlus® 1-Hexene**

Version 1.18

Revision Date 2024-01-17

MSDS number: AA00974-0000000098

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

Product Name : AlphaPlus® 1-Hexene  
Material : 1128498, 1117427, 1088135, 1081271, 1084562, 1070002,  
1025308, 1017828, 1032321, 1017829, 1028630, 1026835,  
1028342, 1011442, 1026834, 1015415

Recommended use of the product : Commercial Product  
Restrictions on use : None known.

**Address** : Chevron Phillips Chemical Company LP  
Normal Alpha Olefins (NAO)  
10001 Six Pines Drive  
The Woodlands, TX 77380

**Address** : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.  
C/O DONG WOO CORPORATION  
#B-2601,JEONGJAIL-RO,  
BUNDANG-GU,SEONGNAMI-SI,  
GYEONGGI-DO,13557  
SOUTH KOREA  
Telephone no.: +612-9186-1132

**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)

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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 (Gifftlinjen): +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: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico “Agostino Gemelli”, Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico “Umberto I” Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera “Antonio Cardarelli” Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera “Papa Giovanni XXIII” Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;  
 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
Website	: www.CPChem.com
Appointees	: 회사명: 리이치24시코리아(주). 주소: 서울특별시 강남구 강남대로 94길 34,4층 전화: + 82-02-6245-1610

**SECTION 2: Hazards identification****Hazard classification**

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**Standards for classification and labeling of chemical substances and material safety data sheet  
(ministry of employment and labor public notice No. 2020-130)****Classification**

: Flammable liquids, Category 2  
Aspiration hazard, Category 1

**Warning label elements including precautionary statements**

Symbol(s)



Signal Word

: Danger

Hazard Statements

: H225: Highly flammable liquid and vapor.  
H304: May be fatal if swallowed and enters airways.

Precautionary Statements

: **Prevention:**  
P210: Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233: Keep container tightly closed.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P280: Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P331: Do NOT induce vomiting.  
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage:**  
P403 + P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.  
**Disposal:**  
P501: Dispose of contents and container according to wastes control act.

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Other hazards which do not result in classification : None

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

Synonyms : alpha-Hexene  
Hexene-1  
Hex-1-ene  
Hexylene  
NAO 6  
Butyl Ethylene  
C6H12

Molecular formula : C6H12

Common name	Synonyms	CAS-No.	Concentration	KECI Number
1-Hexene	hex-1-ene	592-41-6	99 % - 100%	KE-19845
2-Ethyl-1-Butene	2-ethylbut-1-ene	760-21-4	0 % - 1%	KE-13561 (2)-31

**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.

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.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.

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

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 : -26°C (-15°F)

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	Method: closed cup
Autoignition temperature	: 272°C (522°F)
Suitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical.
Unsuitable extinguishing media	: High volume water jet.
Specific hazards during fire fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

**SECTION 6: Accidental release measures**

Personal precautions	: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
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	: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid

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exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

**Secure storage**

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Uses advised against : None known.

Specific Use : Commercial Product

**SECTION 8: Exposure controls/personal protection****Chemical exposure standards, biological exposure standards, etc.**

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: Air-Purifying Respirator for Organic Vapors. 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

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	may not provide adequate protection.
Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggles.
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.
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: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
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

Physical state	: liquid
Color	: Clear, colorless
Odor	: No information available.
Odor Threshold	: No data available

pH : Not applicable

Pour point : No data available

Melting point/freezing point : -140°C (-220°F)

Boiling point/boiling range : 63.5°C (146.3°F)

Flash point : -26°C (-15°F)  
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Lower explosion limit : 2 %(V)

Upper explosion limit : 7 %(V)

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Vapor pressure	:	176.00 MMHG at 24°C (75°F)
		106.30 kPa at 65°C (149°F)
Solubility	:	47 MG/L at 20°C (68°F) slightly soluble
Relative density	:	0.68 at 15 °C (59 °F)
		0.683 at 10 °C (50 °F)
		0.673 at 20 °C (68 °F)
		0.645 at 50 °C (122 °F)
		0.640 at 55 °C (131 °F)
Density	:	645 kg/m3 at 50°C (122°F)
		678 kg/m3 at 15°C (59°F)
		674 g/cm3 at 20°C (68°F)
Vapor density	:	2.9 (Air = 1.0)
Partition coefficient: n- octanol/water	:	log Pow: 3.87
Autoignition temperature	:	272°C (522°F)
Decomposition temperature	:	No data available
Viscosity, kinematic	:	0.34 cSt at 40°C (104°F)
Molecular weight	:	84.18 g/mol

**SECTION 10: Stability and reactivity**

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



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**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.

Hazardous reactions: Vapors may form explosive mixture with air.

**Conditions to avoid** : Heat, flames and sparks.

**Materials to avoid** : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Thermal decomposition** : No data available

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

**SECTION 11: Toxicological information****Information on exposure routes****AlphaPlus® 1-Hexene**

**Acute oral toxicity** : LD50: > 5,600 mg/kg  
Species: Rat  
Sex: male and female  
Method: Acute toxicity estimate

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**Acute inhalation toxicity** : No data available

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**Acute dermal toxicity** : LD50 Dermal: > 3,500 mg/kg  
Species: Rabbit  
Method: Acute toxicity estimate

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**Skin corrosion or irritation** : No skin irritation. 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 corrosion or irritation** : No eye irritation.

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**Respiratory Sensitization** : No data available**AlphaPlus® 1-Hexene  
Skin sensitization** Did not cause sensitization on laboratory animals.**Repeated dose toxicity**

1-Hexene : Species: Rat, male  
Sex: male  
Application Route: oral gavage  
Dose: 0, 10, 101, 1010, 3365 mg/kg  
Exposure time: 28 day  
Number of exposures: daily  
NOEL: 101 mg/kg  
Lowest observable effect level: 1,010 mg/kg  
Test substance: yes  
Method: OECD Test Guideline 407

Species: Rat, female  
Sex: female  
Application Route: oral gavage  
Dose: 0, 10, 101, 1010, 3365 mg/kg  
Exposure time: 28 day  
Number of exposures: daily  
NOEL: 1,010 mg/kg  
Lowest observable effect level: 3,365 mg/kg  
Test substance: yes  
Method: OECD Test Guideline 407

Species: Rat  
Application Route: Inhalation  
Dose: 0, 300, 1000, 3000 ppm  
Exposure time: 90 day  
Number of exposures: 6 h/d, 5 d/wk, 13 wk  
NOEL: 3000 ppm  
Test substance: yes

**Germ cell mutagenicity (in vitro)**

1-Hexene : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
Result: negative

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Test Type: Unscheduled DNA synthesis assay  
Result: negative

Test Type: Mouse lymphoma assay  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Guideline 473  
Result: negative

**Germ cell mutagenicity (in vivo)**

1-Hexene : Test Type: Mouse micronucleus assay  
Species: Mouse  
Method: Mutagenicity (micronucleus test)  
Result: negative

**Specific Target Organ  
Toxicity (Single Exposure)**

Not classified due to data which are conclusive although insufficient for classification.

**Specific Target Organ  
Toxicity (Repeated  
Exposure)**

Not classified due to data which are conclusive although insufficient for classification.

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Aspiration toxicity**

: May be fatal if swallowed and enters airways.

**CMR effects**

1-Hexene : Carcinogenicity: Not available  
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
Teratogenicity: Animal testing did not show any effects on fetal development.  
Reproductive toxicity: Animal testing did not show any effects on fertility.

**Reproductive toxicity**

1-Hexene : Species: Rat  
Sex: males

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Application Route: oral gavage  
Dose: 0, 100, 500, 1000 mg/kg  
Number of exposures: daily  
Test period: 44 d  
Test substance: yes  
Method: OECD Guideline 421  
NOAEL Parent: 1,000 mg/kg  
NOAEL F1: 1,000 mg/kg

Species: Rat  
Sex: females  
Application Route: oral gavage  
Dose: 0, 100, 500, 1000 mg/kg  
Number of exposures: daily  
Test period: 41-51 d  
Test substance: yes  
Method: OECD Guideline 421  
NOAEL Parent: 1,000 mg/kg  
NOAEL F1: 1,000 mg/kg

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Further information**

: Solvents may degrease the skin.

**SECTION 12: Ecological information**

## Ecological Toxicity

**Toxicity to fish**

1-Hexene : LC50: 5.6 mg/l  
Exposure time: 96 h  
Species: *Oncorhynchus mykiss* (rainbow trout)  
semi-static test Test substance: yes  
Method: OECD Test Guideline 203

**Toxicity to daphnia and other aquatic invertebrates**

1-Hexene : EC50: 4.4 mg/l  
Exposure time: 48 h  
Species: *Daphnia magna* (Water flea)  
static test Test substance: no  
Method: OECD Test Guideline 202  
Information given is based on data obtained from similar substances.

**Toxicity to algae**

1-Hexene : NOEC: 1.8 mg/l  
Exposure time: 96 h  
Species: *Pseudokirchneriella subcapitata* (green algae)  
Growth inhibition Method: OECD Test Guideline 201  
Information given is based on data obtained from similar

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substances.

EC50: &gt; 5.5 mg/l

Exposure time: 96 h

Species: Pseudokirchneriella subcapitata (green algae)

Growth inhibition Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances.

<b>Persistence and degradability</b> Persistence and degradability	: This material is expected to be readily biodegradable.
Bioaccumulative	: This material is not expected to bioaccumulate.
Mobility	: No data available
Results of PBT assessment 1-Hexene	: Non-classified PBT substance, Non-classified vPvB substance
Other adverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.
<b>Ecotoxicology Assessment</b>	
Short-term (acute) aquatic hazard	: Toxic to aquatic life.
Long-term (chronic) aquatic hazard	: No data available

**SECTION 13: Disposal considerations**

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

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

Disposal method	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Disposal precaution	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

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**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.

UN Number	:	UN2370
UN Product Shipping Name	:	1-HEXENE
Hazard Class	:	
Packing Group	:	II - Hazardous Properties
Marine Pollutant	:	Not applicable
Special Safety Measures on Mode of Transport	:	No data available

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

UN2370, 1-HEXENE, 3, II

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

UN2370, 1-HEXENE, 3, II, (-26°C)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN2370, 1-HEXENE, 3, II

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

UN2370, 1-HEXENE, 3, II, (D/E)

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

UN2370, 1-HEXENE, 3, II

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

UN2370, 1-HEXENE, 3, II, ENVIRONMENTALLY HAZARDOUS, (1-HEXENE)

For Tank Vessels and/or Barges:

UN2370, 1-HEXENE, 3, (N3), II, ENVIRONMENTALLY HAZARDOUS, (1-Hexene)

Other information : 3

Maritime transport in bulk according to IMO instruments

**SECTION 15: Regulatory information****National legislation****Regulation under the Occupational Safety and Health Act**

A Material Safety Datasheet (MSDS) for this product is not required according to article 41 of the ISHA.

Regulation	Chemical name	Threshold limits
Harmful Substances Prohibited from Manufacturing	:	Not applicable
Harmful Substances Required Permission for Manufacture	:	Not applicable

**Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act**

Regulation	Chemical name	Threshold limits
Toxic Chemicals	:	Not applicable
Prohibited Chemicals	:	Not applicable
Restricted Chemicals	:	Not applicable
Toxic Release Inventory	:	Not applicable

**Dangerous Substances Safety Management Act**

Dangerous Substances Safety Management Act : Flammable liquids, Type 1 petroleums, Water insoluble liquid

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**Regulations by the Waste Management Act** : Not applicable

**Regulations by other domestic and foreign laws**

Europe REACH : This product is in full compliance according to REACH regulation 1907/2006/EC.

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

Australia AIC : 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

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

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

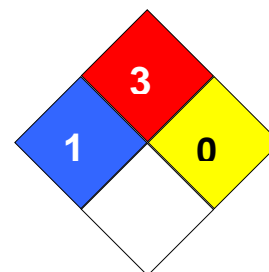
Korea KECI : All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.

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

**SECTION 16: Other information**

Source of data	:	Korea. GHS based classification
Date of initial writing	:	2021-09-15
Revision number	:	1
Last revision date	:	2024-01-17

**NFPA Classification** : Health Hazard: 1  
Fire Hazard: 3  
Reactivity Hazard: 0



**Other information**  
None.



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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 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%	ATE	Acute toxicity estimate

**AlphaPlus® 1-Hexene**

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