SAFETY DATA SHEET



AlphaPlus® 1-Hexene

Version 1.20

Revision Date 2024-10-10

according to GB/T 16483 and GB/T 17519

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

Product information

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

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 (Giftlinien): +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)

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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 80 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. +39 081 7472870 POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 0382 24444; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 300; POISON CENTER VERONA – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 8 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;	8;);
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 +3 67042473. (24 hours.)	371
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 (2007)	24
hours/day, 7 days/week)	6-7
Sweden: 112 – ask for Poisons Information	
Responsible Department:Product Safety and Toxicology GroupE-mail address:SDS@CPChem.comWebsite:www.CPChem.com	
SECTION 2: Hazards identification	
Classification of the substance or mixture GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. (GHS 2013) Emergency Overview	. 29
Danger	
Form: liquid Physical state: liquid Color: Clear, colorless Odor: No information available.	
Hazards : Highly flammable liquid and vapor. May cause respiratory irritation., May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life.	
Classification	
: Flammable liquids, Category 2 Specific target organ toxicity - single exposure, Category 3, respiratory tract irritation, Narcotic effects Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2	
Labeling	
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sion 1.20	Revision Date 2024-1
Symbol(s)	
Signal Word	: Danger
Hazard Statements	 H225: Highly flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H401: Toxic to aquatic life.
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 P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/ eye protection/ face protective Response: P301+P310: IF SWALLOWED: Immediately call a POISO CENTER/doctor. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P312: IF INHALED: Remove person to free air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. 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. P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. Disposal: P501: Dispose of contents/ container to an approved wasted disposal plant.
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ion 1.20		R(evision Date 2024-
Molecular formula	:	C6H12	
Chemical name		CAS-No. / EINECS-No.	Concentration [wt%]
1-Hexene		592-41-6	99 - 100
2-Ethyl-1-Butene		760-21-4	0 - 1
TION 4: First aid measures			
General advice	:	Move out of dangerous area. Show this ma sheet to the doctor in attendance. Material serious, potentially fatal pneumonia if swall	may produce a
lf inhaled	:	If unconscious, place in recovery position a advice. If symptoms persist, call a physicia	
In case of skin contact	:	If on skin, rinse well with water. If on clothe	es, 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.	
f swallowed	:	Keep respiratory tract clear. Do NOT induce vomiting. Do no 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.	
		physician. Take victim immediately to hosp	
ΓΙΟΝ 5: Firefighting measu	ires	· · · · · · · · · · · · · · · · · · ·	
	ires :	· · · · · · · · · · · · · · · · · · ·	
Flash point	ires :	-26°C (-15°F)	
Flash point Autoignition temperature Suitable extinguishing	:	-26°C (-15°F) Method: closed cup	bital.
Flash point Autoignition temperature Suitable extinguishing media Unsuitable extinguishing	:	-26°C (-15°F) Method: closed cup 272°C (522°F)	bital.
Flash point Autoignition temperature Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire	:	-26°C (-15°F) Method: closed cup 272°C (522°F) Alcohol-resistant foam. Carbon dioxide (Co	Dital.
Flash point Autoignition temperature Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire fighting Special protective	:	-26°C (-15°F) Method: closed cup 272°C (522°F) Alcohol-resistant foam. Carbon dioxide (Co High volume water jet. Do not allow run-off from fire fighting to ent	Dital.
TION 5: Firefighting measu Flash point Autoignition temperature Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire fighting Special protective equipment for fire-fighters Further information	:	-26°C (-15°F) Method: closed cup 272°C (522°F) Alcohol-resistant foam. Carbon dioxide (Co High volume water jet. Do not allow run-off from fire fighting to ent courses. Wear self-contained breathing apparatus fo	Dital. D2). Dry chemical er drains or water or firefighting if er separately. This isidues and be disposed of in ety reasons in case closed
Flash point Autoignition temperature Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire fighting Special protective equipment for fire-fighters	:	 -26°C (-15°F) Method: closed cup 272°C (522°F) Alcohol-resistant foam. Carbon dioxide (Coll High volume water jet. Do not allow run-off from fire fighting to ent courses. Wear self-contained breathing apparatus for necessary. Collect contaminated fire extinguishing water must not be discharged into drains. Fire re contaminated fire extinguishing water must accordance with local regulations. For safe of fire, cans should be stored separately in containments. Use a water spray to cool fu 	Dital. D2). Dry chemical er drains or water or firefighting if er separately. This sidues and be disposed of in ety reasons in case closed ully closed

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protection	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.	
CTION 6: Accidental release I	neasures	
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).	
CTION 7: Handling and storage	ge	
Handling		
Advice on safe handling	: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid 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.	
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. 	
CTION 8: Exposure controls/	personal protection	
applicable		
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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		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 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:. 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 cher	nica	I properties
	Information on basic phys	sical	and chemical properties
	Appearance		
	Appearance		

Appearance	
Form Physical state Color Odor Odor Threshold	 liquid liquid Clear, colorless No information available. No data available
Safety data	
Flash point	: -26°C (-15°F)
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	Method: closed cup	
Lower explosion limit	: 2 %(V)	
Upper explosion limit	: 7 %(V)	
Flammability (solid, gas) Oxidizing properties	: : no	
Autoignition temperature	: 272°C (522°F)	
Thermal decomposition	: No data available	
Molecular formula	: C6H12	
Molecular weight	: 84.18 g/mol	
рН	: 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)	
Vapor pressure	: 176.00 MMHG at 24°C (75°F)	
	106.30 kPa at 65°C (149°F)	
Relative density	: 0.68 at 15 °C (59 °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)	
Water solubility	: 47 MG/L at 20°C (68°F) slightly soluble	
Partition coefficient: n-	: log Pow: 3.87	
octanol/water Viscosity, kinematic	: 0.34 cSt at 40°C (104°F)	
Relative vapor density	: 2.9 (Air = 1.0)	
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Evaporation rate	: No data available
Percent volatile	: > 99 %
Conductivity	: 4.1 pSm Method: ASTM D4308
SECTION 10: Stability and reac	tivity
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 re	eactions
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 info	ormation
AlphaPlus® 1-Hexene Acute oral toxicity	: LD50: > 5,600 mg/kg Species: Rat Sex: male and female Method: Acute toxicity estimate
AlphaPlus® 1-Hexene Acute inhalation toxicity	: No data available
AlphaPlus® 1-Hexene Acute dermal toxicity	: LD50 Dermal: > 3,500 mg/kg Species: Rabbit Method: Acute toxicity estimate
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AlphaPlus® 1-Hexene Skin 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.
AlphaPlus® 1-Hexene Eye irritation	: No eye irritation.
AlphaPlus® 1-Hexene Sensitization	: Did not cause sensitization on laboratory animals. Information refers to the main ingredient.
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
Genotoxicity 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
Genotoxicity in vivo	
1-Hexene	: Test Type: Mouse micronucleus assay Species: Mouse Method: Mutagenicity (micronucleus test) Result: negative
Reproductive toxicity	
1-Hexene	 Species: Rat Sex: males 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
AlphaPlus® 1-Hexene 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.
AlphaPlus® 1-Hexene Further information	: Solvents may degrease the skin.
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Endocrine disrupting properties :

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TION 12: Ecological information	ation
Ecotoxicity effects 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 oth	er 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 substances. EC50: > 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.
Biodegradability	: This material is expected to be readily biodegradable.
Elimination information (persi	stence and degradability)
Bioaccumulation	: 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
Endocrine disrupting properties	:
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Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.					
Ecotoxicology Assessment	:					
Short-term (acute) aquatic hazard	: Toxic to aquatic life.					
Long-term (chronic) aquatic hazard	: No data available					
SECTION 13: Disposal consider	SECTION 13: Disposal considerations					
The information in this SDS p	The information in this SDS pertains only to the product as shipped.					
may meet the criteria of a ha other State and local regulate regulated components may b	purpose or recycle if possible. This material, if it must be discarded, zardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste					

Product	: 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.
Contaminated packaging	: 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.

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) UN2370, 1-HEXENE, 3, II

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) UN2370, 1-HEXENE, 3, II, (-26 °C c.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)

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RID (REGULATIONS CONCERNI DANGEROUS GOODS (EUROPE 33,UN2370,1-HEXENE, 3, II	NG THE INTERNATIONAL TRANSPORT OF))
OF DANGEROUS GOODS BY INI UN2370, 1-HEXENE, 3, II, ENV For Tank Vessels and/or Barge	IRONMENTALLY HAZARDOUS, (1-HEXENE)
Other information : Maritime transport in bulk accor ECTION 15: Regulatory information	Hexene (all isomers), S.T.3., Cat. Y ding to IMO instruments
Notification status	
Europe REACH	: This product is in full compliance according to REACH
Switzerland CH INV	regulation 1907/2006/EC. : 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 Canada DSL	TSCA inventory All components of this product are on the Canadian
Australia AIIC	DSL : 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 Korea KECI	On the inventory, or in compliance with the inventoryAll 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
Other regulations	: Law on the Prevention and Control of Occupational Diseases
ECTION 16: Other information	
Further information	
Legacy SDS Number : P	E0016
	version are highlighted in the margin. This version replaces all
Significant changes since the last v	
Significant changes since the last v previous versions.	

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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.

k	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			