

Version 1.17 Revision Date 2024-01-17

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 (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)

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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 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

SECTION 2: Hazards identification

Classification of the substance or mixture GHS Classification and labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015)

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

Symbol(s) :







Signal Word : Danger

Hazard Statements : H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

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> H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.

H401: Toxic to aquatic life.

Precautionary Statements : Prevention:

P210: Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment. P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

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 protection.

Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P312: IF INHALED: Remove person to fresh 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 + P233: Store in a well-ventilated place. Keep container

tightly closed.

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/ container to an approved waste

disposal plant.

SECTION 3: Composition/information on ingredients

Synonyms alpha-Hexene

Hexene-1 Hex-1-ene Hexylene NAO 6

Butyl Ethylene

C6H12

Molecular formula C6H12

Chemical name	CAS-No.	Concentration	ENCS/ISHL number
1-Hexene	592-41-6	99 % - 100%	2-31 2-22
2-Ethyl-1-Butene	760-21-4	0 % - 1%	(2)-31

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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 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 : -26°C (-15°F)

Method: closed cup

Autoignition temperature : 272°C (522°F)

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). 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

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(which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

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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

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.

SECTION 8: Exposure controls/personal protection

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits.

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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 chemical properties

Information on basic physical and chemical properties

Appearance

Form : liquid Physical state : liquid

Color : Clear, colorless

Odor : No information available.

Odor Threshold : No data available

Safety data

Flash point : -26°C (-15°F)

Method: closed cup

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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

: C6H12 Molecular formula

Molecular weight : 84.18 g/mol

рΗ : 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-

octanol/water

: log Pow: 3.87

: 0.34 cSt Viscosity, kinematic

at 40°C (104°F)

Relative vapor density : 2.9

(Air = 1.0)

Evaporation rate : No data available

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Percent volatile : > 99 %

Conductivity : 4.1 pSm

Method: ASTM D4308

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.

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

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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 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 irritation : No eye irritation.

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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

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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.

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Further information : Solvents may degrease the skin.

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SECTION 12: Ecological information

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 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

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 (persistence 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

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.

Ecotoxicology Assessment

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Short-term (acute) aquatic

: Toxic to aquatic life.

hazard

Long-term (chronic) aquatic

: No data available

hazard

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 : 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)

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

33,UN2370,1-HEXENE, 3, II

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE

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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 : Hexene (all isomers), S.T.3., Cat. Y

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

Poisonous and Deleterious Substances Control Law

: Not applicable

Industrial Safety and Health Law

Substances Subject to be

: hex-1-ene(521)

: Not applicable

: Not applicable

: Not applicable

Not applicable

Notified Names Article 57-2

(Enforcement Order Table 9) n-hexane(520)

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

: Inflammable Substance

Harmful Substances Required

Permission for Manufacture

Hazardous Substances : hex-1-ene (521)

Subject to Labeling Requirements Article 57 (Enforcement Order Article

Ordinance on Prevention of

Organic Solvent Poisoning

Ordinance on Prevention of

Lead Poisoning

Harmful Substances

Prohibited from Manufacture

Ordinance on Prevention of Hazards Due to Specified

Chemical Substances

Tetraalkyl Lead Poisoning

Ordinance on Prevention of

: Not applicable

: Not applicable

: Not applicable

: Not applicable

Substances Prevented From : Not applicable

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Impairment of Health Listed

Chemical Substance Control Law

: Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

: Not applicable

Other regulations

Fire Service Law : Flammable liquids

Type 1 petroleums Hazardous rank II

High Pressure Gas Safety Act : Not applicable

Explosive Control Law : Not applicable

Vessel Safety Law : Flammable liquids (Article 2 and 3 of rules on shipping and

storage of dangerous goods and its Attached Table 1)

Aviation Law : Flammable liquid (Article 194 of The Enforcement Rules of

Aviation Law and its Attached Table 1)

Notification status

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) : 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

Australia AIIC : 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 Importation 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

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SECTION 16: Other information

Further information

Legacy SDS Number : PE0016

None.

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.

	ey or legend to abbreviations and a	cronyms used	d 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

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