

Version 5.2 Revision Date 2021-09-15

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

Product information

Product Name : AlphaPlus® 1-Hexene (C6H12)

Material : 10576539

Company : Qatar Chemical Company LTD (QChem)

Amwal Tower, Omar Al Mukhtar St,

Al-Dafna (Zone 61) PO Box 24646 Doha, Qatar

SDS Requests: (+974) 4484-7110 Technical Information: (+974) 4476-7145 Responsible Party: Product Safety Group Email: MSDSInquiry@qchem.com.qa

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

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

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

: Flammable liquids, Category 2 Reproductive toxicity, Category 2 Aspiration hazard, Category 1

Labeling

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Symbol(s)





Signal Word : Danger

Hazard Statements : H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways. H361: Suspected of damaging fertility or the unborn child.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been

read and understood.

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/ protective clothing/ 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/

shower.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

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/ 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.

SECTION 3: Composition/information on ingredients

Synonyms : alpha-Hexene

Hexene-1 Hex-1-ene Hexylene

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NAO 6

Butyl Ethylene

C6H12

Molecular formula : C6H12

Component	CAS-No.	Weight %
1-Hexene	592-41-6	99 - 100
2-Ethyl-1-Butene	760-21-4	0 - 1
n-hexane	110-54-3	0 - 0.3

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. 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

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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. 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.

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SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

Components	Basis	Value	Control parameters	Note
1-Hexene	ACGIH	TWA	50 ppm,	
n-hexane	ACGIH	TWA	50 ppm,	Skin,
	OSHA Z-1	TWA	500 ppm, 1,800 mg/m3	
	OSHA Z-1-A	TWA	50 ppm, 180 mg/m3	

Skin Danger of cutaneous absorption

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
n-hexane	110-54-3	Immediately Dangerous to Life or Health Concentration Value 1100 parts per million	1995-03-01

Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
n-hexane	110-54-3	2,5-Hexanedione: 0.5 mg/l Without hydrolysis (Urine)	End of shift	2020-02-01

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 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. 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.

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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

Safety data

Flash point : -26°C (-15°F)

Method: closed cup

Lower explosion limit : 2 %(V)

Upper explosion limit : 7 %(V)

Oxidizing properties : no

Autoignition temperature : 272°C (522°F)

Thermal decomposition : No data available

Molecular formula : C6H12

Molecular weight : 84.18 g/mol

pH : Not applicable

Pour point : No data available

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)

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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

Viscosity, kinematic : 0.34 cSt

at 40°C (104°F)

Relative vapor density : 2.9

(Air = 1.0)

Evaporation rate : No data available

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

aır.

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.

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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

Acute inhalation toxicity

1-Hexene : LC50: 110.1 mg/l

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: vapor

Method: OECD Test Guideline 403

n-hexane LC50: 73860 ppm

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: vapor

Method: OECD Test Guideline 403

Information given is based on data obtained from similar

substances.

AlphaPlus® 1-Hexene (C6H12)

Acute dermal toxicity : LD50 Dermal: > 3,500 mg/kg

Species: Rabbit

Method: Acute toxicity estimate

AlphaPlus® 1-Hexene (C6H12)

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 (C6H12)

Eye irritation : No eye irritation.

AlphaPlus® 1-Hexene (C6H12)

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

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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

n-hexane Species: Rat, male

Sex: male

Application Route: Inhalation

Dose: 3,000 ppm Exposure time: 16 wks Number of exposures: 12 h/d

Lowest observable effect level: 3,000 ppm Target Organs: Peripheral nervous system

Species: Mouse, female

Sex: female

Application Route: Inhalation Dose: 500, 1,000, 4,000, 10,000 ppm

Exposure time: 13 wks

Number of exposures: 6h or 22h (1,000 ppm)/ 5d/wk

Lowest observable effect level: 500 ppm

Target Organs: Nose

Species: Mouse, male

Sex: male

Application Route: Inhalation Dose: 500, 1,000, 4000, 10,000 ppm

Exposure time: 13 wks

Number of exposures: 6h or 22h (1,000 ppm)/d, 5d/wk

NOEL: 500 ppm

Lowest observable effect level: 1,000 ppm

Target Organs: Nose

Species: Rat, male

Sex: male

Application Route: oral gavage Dose: 568, 1,135, 3,973 mg/kg bw/day

Exposure time: 90 or 120 days

Number of exposures: Daily or 5d/wk (120-d study)

NOEL: 568 mg/kg bw/day

Lowest observable effect level: 1135 mg/kg bw/day

Genotoxicity in vitro

1-Hexene : Test Type: Ames test

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Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Result: negative

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

n-hexane Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: Positive results were obtained in some in vitro tests.

Genotoxicity in vivo

1-Hexene : Test Type: Mouse micronucleus assay

Species: Mouse

Method: Mutagenicity (micronucleus test)

Result: negative

n-hexane Test Type: Dominant lethal assay

Species: Mouse

Dose: 100 and 400 ppm

Result: negative

Test Type: Cytogenetic assay

Species: Rat

Dose: 900, 3000, 9000 ppm

Result: negative

Carcinogenicity

n-hexane : Species: Rat

Dose: 0.043, 900, 3,000, 9,016 ppm

Exposure time: 2 yrs

Number of exposures: 6 h/d, 5 d/wk

Remarks: No evidence of carcinogenicity, Information given is

based on data obtained from similar substances.

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Species: Mouse Sex: male and female

Dose: 0.039, 900, 3,000, 9,018 ppm

Exposure time: 2 yrs

Number of exposures: 6 h/d, 5 d/wk

Remarks: No evidence of carcinogenicity, Information given is

based on data obtained from similar substances.

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: ves

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

n-hexane Species: Rat

Sex: male

Application Route: Inhalation

Dose: 5,000 ppm

Number of exposures: 16 hr/d, 6 d/wk

Test period: 6 wks

permanent testicular damage characterized by loss of germ-

cell line

Developmental Toxicity

n-hexane : Species: Rat

Application Route: Inhalation Dose: 200, 1,000, 5,000 ppm Number of exposures: 20 hr/d, daily

Test period: GD 6-20

NOAEL Teratogenicity: 200 ppm NOAEL Maternal: 200 ppm

Species: Mouse

Application Route: Inhalation Dose: 200, 1,000, 5,000 ppm Number of exposures: 20 hr/d, daily

Test period: GD 6-17 NOAEL Maternal: 1,000 ppm

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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.

n-hexane Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Did not show mutagenic effects in animal

experiments.

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on

animal experiments.

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Further information : Solvents may degrease the skin.

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

n-hexane LL50: 12.51 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: QSAR modeled data

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.

n-hexane EL50: 21.85 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Method: QSAR modeled data

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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.

n-hexane EL50: 9.29 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: QSAR modeled data

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 : This substance/mixture contains no components considered

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

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

: 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

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courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

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)

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

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

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

Other information :	Hexene (all isomers), S.T.2., Cat. Y
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Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

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SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Reproductive toxicity Aspiration hazard

CERCLA Reportable

Quantity

: Calculated RQ exceeds reasonably attainable upper limit.

n-hexane

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

Ozone-Depletion

Potential

: 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).

US State Regulations

Pennsylvania Right To Know

: 1-Hexene - 592-41-6

2-Ethyl-1-Butene - 760-21-4

California Prop. 65

Components

: WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more

information go to www.P65Warnings.ca.gov.

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n-hexane 110-54-3

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 AICS : On the inventory, or in compliance with the inventory
New Zealand NZIoC : On the inventory, or in compliance with the inventory
Japan ENCS : On the inventory, or in compliance with the inventory
Korea KECI : All substances in this product were registered, notified

to be registered, or exempted from registration by QChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on QChem's notifications or if the Importer of

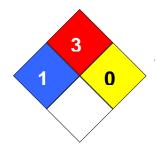
Record themselves notified the substances.

Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 1

Fire Hazard: 3 Reactivity Hazard: 0



Further information

Legacy SDS Number : QCHEM009

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	LD50	Lethal Dose 50%	
	Government Industrial Hygienists			

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AICS	Australia, Inventory of Chemical Substances	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%		

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