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

Product information

Product Name : Metallocene C-06

Use : Polymerization Agent

Company : Chevron Phillips Chemical Company LP

Specialty Chemicals 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: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

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.

Emergency Overview

Danger

Form: Liquid Physical state: Liquid Color: yellow to orange Odor: Slight

OSHA Hazards : Flammable Liquid, Aspiration hazard, Moderate skin irritant,

Moderate eye irritant, Reproductive hazard

Classification

: Flammable liquids, Category 2 Skin irritation, Category 2

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Eye irritation, Category 2A Reproductive toxicity, Category 2

Specific target organ systemic toxicity - single exposure,

Category 3, Central nervous system

Specific target organ systemic toxicity - repeated exposure,

Category 2, Auditory organs Aspiration hazard, Category 1

Labeling

Symbol(s) :







Signal Word : Danger

Hazard Statements : H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation. H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H361: Suspected of damaging fertility or the unborn child. H373: May cause damage to organs (Auditory organs) through

prolonged or repeated exposure.

Precautionary Statements : Prevention:

P202 Do not handle until all safety precautions have been read and understood.

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.

P260 Do not breathe dust/fume/gas/mist/vapor/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.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.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

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> P337 + P313 If eye irritation persists: Get medical advice/

attention.

Take off contaminated clothing and wash before reuse. P362 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.

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.

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

equal to 0.1% is identified as a carcinogen or potential carcinogen

by ACGIH.

SECTION 3: Composition/information on ingredients

Synonyms None Established

Molecular formula Mixture

| Component | CAS-No. | Weight % |
|-----------|----------|----------|
| 1-Hexene | 592-41-6 | 50 - 98 |
| Toluene | 108-88-3 | 2 - 50 |

SECTION 4: First aid measures

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

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

If inhaled Consult a physician after significant exposure. If unconscious

place in recovery position and seek medical advice.

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

with water. If on clothes, remove clothes.

Immediately flush eye(s) with plenty of water. Remove contact In case of eye 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

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an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point : -83 - 4.4 °C (-117 - 39.9 °F)

Method: Tag closed cup

Autoignition temperature : No data available

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 an open flame or any other 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.

Hazardous decomposition

products

: Carbon oxides. Gaseous hydrogen chloride (HCI).

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).

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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. 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 an open flame or any other 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

Ingredients with workplace control parameters

us

| Ingredients | Basis | Value | Control parameters | Note |
|-------------|------------|-------|--------------------|---|
| 1-Hexene | ACGIH | TWA | 50 ppm, | CNS impair, |
| Toluene | ACGIH | TWA | 20 ppm, | visual impair, female repro, pregnancy loss, BEI, A4, |
| | OSHA Z-2 | TWA | 200 ppm, | |
| | OSHA Z-2 | CEIL | 300 ppm, | |
| | OSHA Z-2 | Peak | 500 ppm, | |
| | OSHA Z-1-A | TWA | 100 ppm, 375 mg/m3 | |
| | OSHA Z-1-A | STEL | 150 ppm, 560 mg/m3 | |

A4 Not classifiable as a human carcinogen

BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)

CNS impair Central Nervous System impairment

female repro pregnancy loss Pregnancy loss visual impair Visual impairment

Immediately Dangerous to Life or Health Concentrations (IDLH)

| Substance name | CAS-No. | Control parameters | Update |
|----------------|----------|---|------------|
| Toluene | 108-88-3 | Immediately Dangerous to Life or Health Concentration Value 500 ppm | 1995-03-01 |

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Biological exposure indices

US

| Substance name | CAS-No. | Control parameters | Sampling time | Update |
|----------------|----------|--|---|------------|
| Toluene | 108-88-3 | Toluene: 0.02 mg/l (In blood) | Prior to last shift of workweek | 2010-03-01 |
| | | Toluene: 0.03 mg/l (Urine) | End of shift (As soon as possible after exposure ceases) | 2010-03-01 |
| | | o-Cresol: 0.3 mg/g Creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | 2010-03-01 |

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, 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.

is any indication of degradation of chemical breaking digit.

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

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Appearance

Form : Liquid Physical state : Liquid

Color : yellow to orange

Odor : Slight

Odor Threshold : No data available

Safety data

: -83 - 4.4 °C (-117 - 39.9 °F) Flash point

Method: Tag closed cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

рΗ : Not applicable

Freezing point : No data available

No data available Pour point

Boiling point/boiling range : No data available

Vapor pressure : No data available

Relative density : No data available

: 0.68 G/ML Density

Water solubility : Negligible

Partition coefficient: n-Viscosity, kinematic

octanol/water

: No data available

: No data available

Relative vapor density : No data available

Evaporation rate : No data available

SECTION 10: Stability and reactivity

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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

Conditions to avoid : Heat, flames and sparks.

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

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Carbon oxides

Gaseous hydrogen chloride (HCI).

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

SECTION 11: Toxicological information

Acute oral toxicity

1-Hexene : LD50: > 5,600 mg/kg

Species: Rat

Sex: male and female Method: Fixed Dose Method

Toluene LD50: 6,500 mg/kg

Species: Rat Sex: Not Specified

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Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity

Toluene : LD50: 12,400 mg/kg

Species: Rabbit Sex: Not Specified

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Skin irritation : May cause skin irritation in susceptible persons.

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Eye irritation : May cause irreversible eye damage.

Sensitization

1-Hexene : Classification: Did not cause sensitization on laboratory

animals.

Did not cause sensitization on laboratory animals.

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Toluene 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

Toluene Species: Rat

Application Route: Inhalation Dose: 0, 100, 625, 1250, 3000 ppm

Exposure time: 15 wk

Number of exposures: 6.5 h/d, 5 d/wk

NOEL: 625 ppm

Species: Mouse

Application Route: Inhalation Dose: 0, 100, 625, 1250, 3000 ppm

Exposure time: 14 wk

Number of exposures: 6.5 h/d, 5 d/wk

NOEL: 100 ppm

Carcinogenicity

Toluene : Species: Rat

Dose: 0, 600, 1200 ppm Exposure time: 2 yrs

Number of exposures: 6.5 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

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Species: Mouse

Dose: 0, 600, 1200 ppm Exposure time: 2 yrs

Number of exposures: 6.5 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

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

Toluene Species: Rat

> Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm

Test period: 95 d

NOAEL Parent: 2000 ppm

Developmental Toxicity

Toluene Species: Rat

> Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm

Test period: 95 d

NOAEL Teratogenicity: 400-750 ppm

Metallocene C-06 Aspiration toxicity

: May be fatal if swallowed and enters airways.

Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity

hazard.

CMR effects

: Carcinogenicity: Not available 1-Hexene

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

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on fertility.

Toluene Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Animal testing did not show any mutagenic

effects.

Teratogenicity: Some evidence of adverse effects on

development, based on animal experiments.

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 : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents

may degrease the skin.

SECTION 12: Ecological information

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

Toluene LC50: 18 - 36 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

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.

Toluene EC50: 3.78 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

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.

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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.

Toluene EC50: 134 mg/l

Exposure time: 72 h

Species: Chlamydomonas angulosa (Green algae)

Elimination information (persistence and degradability)

Bioaccumulation

1-Hexene : This material is not expected to bioaccumulate.

Biodegradability : Expected to be biodegradable

Ecotoxicology Assessment

Acute aquatic toxicity

1-Hexene : Toxic to aquatic life.

Toluene : Toxic to aquatic life.

Chronic aquatic toxicity

1-Hexene : No data available

Toluene : Harmful to aquatic life with long lasting effects.

Results of PBT assessment

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

Toluene : Non-classified vPvB substance, Non-classified PBT substance

Additional ecological

information

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

Harmful to aquatic life with long lasting effects.

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

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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)

UN1993, FLAMMABLE LIQUIDS, N.O.S., (1-HEXENE, TOLUENE), 3, II, RQ (TOLUENE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1993, FLAMMABLE LIQUID, N.O.S., (1-HEXENE, TOLUENE), 3, II, (-83 - 4.4 °C)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1993, FLAMMABLE LIQUID, N.O.S., (1-HEXENE, TOLUENE), 3, II

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

UN1993, FLAMMABLE LIQUID, N.O.S., (1-HEXENE, TOLUENE), 3, II

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

UN1993, FLAMMABLE LIQUID, N.O.S., (1-HEXENE, TOLUENE), 3, II

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

UN1993, FLAMMABLE LIQUID, N.O.S., (1-HEXENE, TOLUENE), 3, II

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

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CERCLA Reportable

Quantity

: 2000 lbs

Toluene

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : The following components are subject to reporting levels

established by SARA Title III, Section 313:

: Toluene - 108-88-3

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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

: Toluene - 108-88-3

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

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

: Toluene - 108-88-3

US State Regulations

Pennsylvania Right To Know

: 1-Hexene - 592-41-6 Toluene - 108-88-3

New Jersey Right To Know

: 1-Hexene - 592-41-6

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Toluene - 108-88-3

California Prop. 65

Ingredients

: WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive

harm.

Notification status

Europe REACH : Not in compliance with the inventory Switzerland CH INV : Not in compliance with the inventory

United States of America TSCA : All chemical substances in this product are either listed

on the TSCA Inventory or are in compliance with a

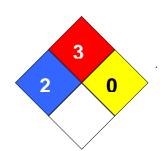
TSCA Inventory exemption.

Canada DSL : Not in compliance with the inventory
Australia AICS : Not in compliance with the inventory
New Zealand NZIoC : Not in compliance with the inventory
Japan ENCS : Not in compliance with the inventory
Korea KECI : Not in compliance with the inventory
Philippines PICCS : Not in compliance with the inventory
China IECSC : Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 3 Reactivity Hazard: 0



Further information

Legacy SDS Number : CPC00481

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 | | |
| AICS | Australia, Inventory of Chemical | LOAEL | Lowest Observed Adverse Effect |
| | Substances | | Level |

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| 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 | PICCS | Philippines Inventory of |
| | Chemical Substances | | 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% | | |