SAFETY DATA SHEET

AlphaPlus® 1-Hexene

Version 1.13  Revision Date 2019-10-11

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: 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
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
GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)

Emergency Overview

Danger
Form: Liquid  Physical state: Liquid  Color: Clear, colorless
Hazard: 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. Toxic to

SDS Number: 1000000068730  1/13
Aquatic life with long lasting effects.

**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
- Long-term (chronic) 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.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H411: Toxic to aquatic life with long lasting effects.

**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/ ventiliating/ 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 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.
- P331: Do NOT induce vomiting.
- P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P391: Collect spillage.

**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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. / EINECS-No.</th>
<th>Concentration [wt%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Hexene</td>
<td>592-41-6</td>
<td>99 - 100</td>
</tr>
<tr>
<td>2-Ethyl-1-Butene</td>
<td>760-21-4</td>
<td>0 - 1</td>
</tr>
</tbody>
</table>

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.

SDS Number: 100000068730
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.

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 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

Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace 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.

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.
# AlphaPlus® 1-Hexene

### SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear, colorless</td>
</tr>
<tr>
<td><strong>Safety data</strong></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>-26 °C (-15 °F)</td>
</tr>
<tr>
<td>Method</td>
<td>closed cup</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>2 %(V)</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>7 %(V)</td>
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<tr>
<td>Oxidizing properties</td>
<td>no</td>
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<tr>
<td>Autoignition temperature</td>
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<td>Thermal decomposition</td>
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<td>Molecular formula</td>
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<tr>
<td>pH</td>
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<tr>
<td>Pour point</td>
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<td>Boiling point/boiling range</td>
<td>63.5 °C (146.3 °F)</td>
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<td>Vapor pressure</td>
<td>176.00 MMHG</td>
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<tr>
<td></td>
<td>at 24 °C (75 °F)</td>
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<tr>
<td></td>
<td>106.30 kPa</td>
</tr>
<tr>
<td></td>
<td>at 65 °C (149 °F)</td>
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<tr>
<td>Relative density</td>
<td>0.68</td>
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<tr>
<td></td>
<td>at 15 °C (59 °F)</td>
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<tr>
<td>Density</td>
<td>645 kg/m3</td>
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<td></td>
<td>at 50 °C (122 °F)</td>
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<tr>
<td></td>
<td>678 kg/m3</td>
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<td></td>
<td>at 15 °C (59 °F)</td>
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<tr>
<td></td>
<td>674 g/cm3</td>
</tr>
<tr>
<td></td>
<td>at 20 °C (68 °F)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>47 MG/L</td>
</tr>
<tr>
<td></td>
<td>at 20 °C (68 °F)</td>
</tr>
<tr>
<td></td>
<td>slightly soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-Log Pow</td>
<td>3.87</td>
</tr>
</tbody>
</table>
AlphaPlus® 1-Hexene

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

Acute oral toxicity

1-Hexene
- LD50: > 5,600 mg/kg
  - Species: Rat
  - Sex: male and female
  - Method: Fixed Dose Method

Acute inhalation toxicity
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Revision Date 2019-10-11

1-Hexene

LC50: 110.1 mg/l
Exposure time: 4 h
Species: Rat
Sex: male
Test atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity

1-Hexene

LD50: > 2,000 mg/kg
Species: Rabbit
Sex: male and female

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.

Eye irritation

No eye irritation.

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
### 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

**1-Hexene**
- 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
AlphaPlus® 1-Hexene

Further information: 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

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
1-Hexene: 67 - 98 %
Testing period: 28 d
Test substance: yes
According to the results of tests of biodegradability this product is considered as being readily biodegradable.

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

Mobility

1-Hexene : 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

Short-term (acute) aquatic hazard

1-Hexene : Toxic to aquatic life.

Long-term (chronic) aquatic hazard

1-Hexene : No data available

SECTION 13: Disposal considerations

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

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

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

SDS Number:100000068730  11/13
### 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

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

### SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Location</th>
<th>Status/Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>REACH: This product is in full compliance according to REACH regulation 1907/2006/EC.</td>
</tr>
<tr>
<td>Switzerland</td>
<td>CH INV: On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>United States</td>
<td>TSCA: On or in compliance with the active portion of the TSCA inventory</td>
</tr>
<tr>
<td>Canada</td>
<td>DSL: All components of this product are on the Canadian DSL</td>
</tr>
<tr>
<td>Australia</td>
<td>AICS: On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>New Zealand</td>
<td>NZIoC: On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Japan</td>
<td>ENCS: On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Korea</td>
<td>KECI: All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem’s notifications or if the Importer of Record themselves notified the substances.</td>
</tr>
<tr>
<td>Philippines</td>
<td>PICCS: On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>China</td>
<td>IECSC: On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Taiwan</td>
<td>TCSI: On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td><strong>Other regulations</strong></td>
<td>Law on the Prevention and Control of Occupational Diseases</td>
</tr>
</tbody>
</table>
Further information

Legacy SDS Number : PE0016

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration</td>
</tr>
<tr>
<td>EC50E</td>
<td>Effective Concentration 50%</td>
</tr>
<tr>
<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
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<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<td>GHS</td>
<td>Globally Harmonized System</td>
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<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<td>IECS</td>
<td>Inventory of Existing Chemical Substances in China</td>
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<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
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<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
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<tr>
<td>&lt;=</td>
<td>Less Than or Equal To</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
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<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
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<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
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<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
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<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
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<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>UVGB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
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