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

Product information
Product Name: AlphaPlus® 1-Hexene
Material: 1117427, 1088135, 1081271, 1084562, 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

Local: CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.
C/O DONG WOO CORPORATION
#B-2601,JEONGJAIL-RO,
BUNDANG-GU,SEONGNAMI-SI,
GYEONGGI-DO,13557
SOUTH KOREA
Telephone no.: +612-9186-1132

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
Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2016-19) (GHS 2011)
AlphaPlus® 1-Hexene

Version 1.12

Revision Date 2019-11-14

Classification

: Flammable liquids, Category 2
  Specific target organ toxicity - single exposure, Category 3,
  Respiratory system, Central nervous system
  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.
  H335: May cause respiratory irritation.
  H336: May cause drowsiness or dizziness.

Precautionary Statements

Prevention:
  P210: Keep away from heat/sparks/open flames/hot surfaces.
  No smoking.
  P233: Keep container tightly closed.
  P240: Ground/bond container and receiving equipment.
  P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.
  P242: Use only non-sparking tools.
  P243: Take precautionary measures against static discharge.
  P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
  P271: Use only outdoors or in a well-ventilated area.
  P280: Wear protective gloves/ eye protection/ face protection.

Response:
  P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
  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 victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician 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 and container according to wastes control act.
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.</th>
<th>Concentration</th>
<th>KECi Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Hexene</td>
<td>592-41-6</td>
<td>99% - 100%</td>
<td>KE-19845</td>
</tr>
<tr>
<td>2-Ethyl-1-Butene</td>
<td>760-21-4</td>
<td>0% - 1%</td>
<td>KE-13561 (2)-31</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.

Specific hazards during firefighting: 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

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 safe handling

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.

#### 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

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be
SAFETY DATA SHEET

AlphaPlus® 1-Hexene

Version 1.12
Revision Date 2019-11-14

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 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.

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

SDS Number:100000068730 5/14
**AlphaPlus® 1-Hexene**

**Version 1.12**  
Revision Date 2019-11-14

---

**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)  
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.

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

---

**SDS Number**: 100000068730

7/14
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.

AlphaPlus® 1-Hexene Eye irritation : No eye irritation.

AlphaPlus® 1-Hexene Sensitization : Did not cause sensitization on laboratory animals. Information refers to the main ingredient.

Repeated dose toxicity
1-Hexene : Species: Rat, male
Sex: male
Application Route: oral gavage
Dose: 0, 10, 101, 1010, 3365 mg/kg
Exposure time: 28 day
Number of exposures: daily
NOEL: 101 mg/kg
Lowest observable effect level: 1,010 mg/kg
Test substance: yes
Method: OECD Test Guideline 407

Species: Rat, female
Sex: female
Application Route: oral gavage
Dose: 0, 10, 101, 1010, 3365 mg/kg
Exposure time: 28 day
Number of exposures: daily
NOEL: 1,010 mg/kg
Lowest observable effect level: 3,365 mg/kg
Test substance: yes
Method: OECD Test Guideline 407

Species: Rat
Application Route: Inhalation
Dose: 0, 300, 1000, 3000 ppm
Exposure time: 90 day
Number of exposures: 6 h/d, 5 d/wk, 13 wk
NOEL: 3000 ppm
Test substance: yes

Genotoxicity in vitro
1-Hexene : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative
Test Type: Unscheduled DNA synthesis assay  
Result: negative

Test Type: Mouse lymphoma assay  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Guideline 473  
Result: negative

**Genotoxicity in vivo**

1-Hexene:  
Test Type: Mouse micronucleus assay  
Species: Mouse  
Method: Mutagenicity (micronucleus test)  
Result: negative

**Reproductive toxicity**

1-Hexene:  
Species: Rat  
Sex: males  
Application Route: oral gavage  
Dose: 0, 100, 500, 1000 mg/kg  
Number of exposures: daily  
Test period: 44 d  
Test substance: yes  
Method: OECD Guideline 421  
NOAEL Parent: 1,000 mg/kg  
NOAEL F1: 1,000 mg/kg

Species: Rat  
Sex: females  
Application Route: oral gavage  
Dose: 0, 100, 500, 1000 mg/kg  
Number of exposures: daily  
Test period: 41-51 d  
Test substance: yes  
Method: OECD Guideline 421  
NOAEL Parent: 1,000 mg/kg  
NOAEL F1: 1,000 mg/kg

**AlphaPlus® 1-Hexene Aspiration toxicity**

: May be fatal if swallowed and enters airways.

**CMR effects**

1-Hexene:  
Carcinogenicity: Not available  
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
Teratogenicity: Animal testing did not show any effects on fetal development.  
Reproductive toxicity: Animal testing did not show any effects on fertility.

**AlphaPlus® 1-Hexene Further information**

: Solvents may degrease the skin.
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.

Mobility

1-Hexene : No data available
SAFETY DATA SHEET

AlphaPlus® 1-Hexene

Version 1.12

Revision Date 2019-11-14

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

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

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

SDS Number:100000068730  11/14
SAFETY DATA SHEET

AlphaPlus® 1-Hexene

Version 1.12
Revision Date 2019-11-14

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

National legislation

Regulation under the Occupational Safety and Health Act
A Material Safety Datasheet (MSDS) for this product is not required according to article 41 of the ISHA.

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Chemical name</th>
<th>Threshold limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmful Substances Prohibited from Manufacturing</td>
<td>: Not applicable</td>
<td></td>
</tr>
<tr>
<td>Harmful Substances Required Permission for Manufacture</td>
<td>: Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Chemical name</th>
<th>Threshold limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic Chemicals</td>
<td>: Not applicable</td>
<td></td>
</tr>
<tr>
<td>Prohibited Chemicals</td>
<td>: Not applicable</td>
<td></td>
</tr>
<tr>
<td>Restricted Chemicals</td>
<td>: Not applicable</td>
<td></td>
</tr>
<tr>
<td>Toxic Release Inventory</td>
<td>: Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

Dangerous Substances Safety Management Act

Dangerous Substances Safety Management Act: Flammable liquids, Type 1 petroleums, Water insoluble liquid

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 inventory
Canada DSL: All components of this product are on the Canadian

SDS Number: 100000068730
12/14
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 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.

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

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>EC50</td>
<td>Effective Concentration 50%</td>
</tr>
<tr>
<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
</tr>
<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
</tr>
<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<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>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
</tr>
<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
</tr>
</tbody>
</table>

SDS Number: 100000068730
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>&lt;=</td>
<td>Less Than or Equal To</td>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>