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

Product information
Product Name :
Material :
Company :

Emergency telephone:

Health:
Transport:

Responsible Department :
E-mail address :
Website :

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 :
Labeling
Symbol(s) :

SDS Number: 100000065709
SAFETY DATA SHEET

AlphaPlus® 1-Hexadecene

Version 1.11

Revision Date 2019-08-14

Signal Word : Danger

Hazard Statements : H304: May be fatal if swallowed and enters airways.

Precautionary Statements : Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.

Storage:
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 :
NAO 16
1-Hexadecene
(C16 H32)

Molecular formula : C16H32

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Hexadecene</td>
<td>629-73-2</td>
<td>93</td>
</tr>
<tr>
<td>2-Butyl-1-Dodecene</td>
<td>115146-98-0</td>
<td>2</td>
</tr>
<tr>
<td>2-Ethyl-1-Tetradecene</td>
<td>56919-55-2</td>
<td>2</td>
</tr>
<tr>
<td>2-Hexyl-1-Decene</td>
<td>13043-55-5</td>
<td>2</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. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

SDS Number: 100000065709
**SECTION 5: Firefighting measures**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point</strong></td>
<td>132 °C (270 °F) Method: PMCC</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>240 °C (464 °F)</td>
</tr>
<tr>
<td><strong>Unsuitable extinguishing media</strong></td>
<td>High volume water jet.</td>
</tr>
<tr>
<td><strong>Specific hazards during fire fighting</strong></td>
<td>Standard procedure for chemical fires.</td>
</tr>
<tr>
<td><strong>Special protective equipment for fire-fighters</strong></td>
<td>Wear self-contained breathing apparatus for firefighting if necessary.</td>
</tr>
<tr>
<td><strong>Further information</strong></td>
<td>Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</td>
</tr>
<tr>
<td><strong>Fire and explosion protection</strong></td>
<td>Normal measures for preventive fire protection.</td>
</tr>
<tr>
<td><strong>Hazardous decomposition products</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**SECTION 6: Accidental release measures**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personal precautions</strong></td>
<td>Use personal protective equipment. Ensure adequate ventilation.</td>
</tr>
<tr>
<td><strong>Environmental precautions</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Methods for cleaning up</strong></td>
<td>Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.</td>
</tr>
</tbody>
</table>

**SECTION 7: Handling and storage**

**Handling**

**Advice on safe handling**

Do not breathe vapors or spray mist. For personal protection see section 8. Smoking, eating and drinking should be
SGA Safety Data Sheet

AlphaPlus® 1-Hexadecene

Version 1.11
Revision Date 2019-08-14

prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. 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 Dusts and Mists / P100. 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: Lightweight.
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**
- Physical state: Liquid
- Color: Clear, colorless

**Safety data**
- Flash point: 132 °C (270 °F)
  Method: PMCC
- Lower explosion limit: 0.5 % (V)
- Upper explosion limit: 5.8 % (V)
- Oxidizing properties: no
- Autoignition temperature: 240 °C (464 °F)
- Molecular formula: C16H32
- Molecular weight: 224.48 g/mol
- pH: Not applicable
- Melting point/range: 4 °C (39 °F)
- Freezing point: 4 °C (39 °F)
- Pour point: No data available
- Boiling point/boiling range: 285 °C (545 °F)
- Vapor pressure: 0.00 MMHG
  - at 25 °C (77 °F)
  - < 0.01 kPa
    - at 65 °C (149 °F)
- Relative density: 0.78
  - at 15.6 °C (60.1 °F)
- Density: 785 kg/m³
  - at 15 °C (59 °F)
  - 780 kg/m³
    - at 20 °C (68 °F)
  - 760 kg/m³
AlphaPlus® 1-Hexadecene

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: Hazardous reactions: Hazardous polymerization does not occur.

Further information: No decomposition if stored and applied as directed.

Conditions to avoid: No data available.

Materials to avoid: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous decomposition products: No data available

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

SECTION 11: Toxicological information

Acute oral toxicity
1-Hexadecene: LD50: 10 g/kg
Species: Rat
Sex: male and female
Method: OECD Test Guideline 401
Test substance: yes

Acute inhalation toxicity
### 1-Hexadecene

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>&gt; 8.5 mg/l</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>Sex</td>
<td>male</td>
</tr>
<tr>
<td>Test atmosphere</td>
<td>dust/mist</td>
</tr>
</tbody>
</table>

#### Acute dermal toxicity

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50</td>
<td>&gt; 2020 mg/kg</td>
</tr>
<tr>
<td>Species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Sex</td>
<td>male and female</td>
</tr>
</tbody>
</table>

Information given is based on data obtained from similar substances.

#### Skin irritation

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mild skin irritation</td>
</tr>
<tr>
<td></td>
<td>Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.</td>
</tr>
</tbody>
</table>

#### Eye irritation

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No eye irritation</td>
</tr>
</tbody>
</table>

#### Sensitization

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Did not cause sensitization on laboratory animals.</td>
</tr>
</tbody>
</table>

#### Repeated dose toxicity

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Species: Rat, Male and female</td>
</tr>
<tr>
<td></td>
<td>Sex: Male and female</td>
</tr>
<tr>
<td></td>
<td>Application Route: oral gavage</td>
</tr>
<tr>
<td></td>
<td>Dose: 100, 500, or 1000 mg/kg/day</td>
</tr>
<tr>
<td></td>
<td>Exposure time: 42-51 days</td>
</tr>
<tr>
<td></td>
<td>Number of exposures: Daily</td>
</tr>
<tr>
<td></td>
<td>NOEL: 1000 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>Method: OECD Guideline 422</td>
</tr>
</tbody>
</table>

Information given is based on data obtained from similar substances.
Species: Rat, male  
Sex: male  
Application Route: oral gavage  
Dose: 10, 101, 1010, 3365 mg/kg/day  
Exposure time: 4 weeks  
Number of exposures: 7 days/week  
NOEL: 101 mg/kg bw/day  
Method: OECD Test Guideline 407  
Target Organs: Stomach  
Information given is based on data obtained from similar substances.

Species: Rat, female  
Sex: female  
Application Route: oral gavage  
Dose: 10, 101, 1010, 3365 mg/kg/day  
Exposure time: 4 weeks  
Number of exposures: 7 days/week  
NOEL: 1010 mg/kg bw/day  
Method: OECD Test Guideline 407  
Information given is based on data obtained from similar substances.

Species: Rat, Male and female  
Sex: Male and female  
Application Route: oral gavage  
Dose: 100, 500, 1000 mg/kg/day  
Exposure time: 13 weeks  
Number of exposures: 7 days/week  
NOEL: 1000 mg/kg bw/day  
Information given is based on data obtained from similar substances.

Species: Rat, Male and female  
Sex: Male and female  
Application Route: Inhalation  
Dose: 300, 1000, 3000 ppm  
Exposure time: 13 weeks  
Number of exposures: 6 hrs/day, 5 days/week  
NOEL: 3000 ppm  
Information given is based on data obtained from similar substances.

**Genotoxicity in vitro**

1-Hexadecene  
Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative
### Genotoxicity in vivo

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micronucleus test</td>
<td>negative</td>
</tr>
</tbody>
</table>

#### 1-Hexadecene
- **Species**: Mouse
- **Dose**: 1,000, 10,000, 25,000 ppm
- **Result**: negative

### Reproductive toxicity

#### 1-Hexadecene
- **Species**: Rat, male and female
- **Application Route**: oral gavage
- **Dose**: 100, 500, 1000 mg/kg/day
- **Number of exposures**: Daily
- **Test period**: 42-51 days
- **Method**: OECD Guideline 422
- **NOAEL Parent**: 1000 mg/kg bw/day
- **NOAEL F1**: 1000 mg/kg bw/day
- **Information given is based on data obtained from similar substances.**

#### AlphaPlus® 1-Hexadecene
- **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
1-Hexadecene: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Did not show mutagenic effects in animal experiments. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction

Further information: Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish
1-Hexadecene: LL50: > 1000 mg/L Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 The product has low solubility in the test medium. An aqueous dispersion was tested.

Toxicity to daphnia and other aquatic invertebrates
1-Hexadecene: EL50: < 1000 mg/L Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 The product has low solubility in the test medium. An aqueous dispersion was tested.

Toxicity to algae
1-Hexadecene: EC50: > 1000 mg/L Exposure time: 72 h Species: Selenastrum capricornutum (algae) static test Method: OECD Test Guideline 201 The product has low solubility in the test medium. An aqueous dispersion was tested.

Biodegradability
1-Hexadecene: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Bioaccumulation
1-Hexadecene: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.
Mobility

1-Hexadecene : No data available

Results of PBT assessment

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

Additional ecological information

1-Hexadecene : This material is not expected to be harmful to aquatic organisms.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : No toxicity at the limit of solubility.

Long-term (chronic) aquatic hazard

1-Hexadecene : This material is not expected to be harmful to aquatic organisms.

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 : Do not dispose of waste into sewer. 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.

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)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.
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 : Aspiration hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

CERCLA Reportable Quantity : This material does not contain any components with a CERCLA RQ.

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.
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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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations

Pennsylvania Right To Know: No components are subject to the Pennsylvania Right to Know Act.

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

Europe REACH: This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH).

Switzerland CH INV: On the inventory, or in compliance with the inventory

United States of America (USA) TSCA: On or in compliance with the active portion of the TSCA inventory

Canada DSL: On the inventory, or in compliance with the inventory

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: A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still
permitted provided the Korean Importer of Record has themselves notified the substance.

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: 0
                        Fire Hazard: 1
                        Reactivity Hazard: 0

Further information
Legacy SDS Number : PE0021

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>IFCS</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>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 Effet 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>
</tbody>
</table>

SDS Number:100000065709  14/15
### AlphaPlus® 1-Hexadecene

<table>
<thead>
<tr>
<th>&gt;=</th>
<th>Greater Than or Equal To</th>
<th>STEL</th>
<th>Short-term Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
<td>STEL</td>
<td>SARA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Superfund Amendments and</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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>