

**AlphaPlus® 1-Tetradecene**

Version 2.7

Revision Date 2019-11-14

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1****Product information**

Product Name : AlphaPlus® 1-Tetradecene  
 Material : 1064098, 1037032, 1037031

**EC-No.Registration number**

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
1-Tetradecene	1120-36-1 214-306-9	Chevron Phillips Chemical Company LP 01-2119472424-39-0003

**1.2****Relevant identified uses of the substance or mixture and uses advised against**

Relevant Identified Uses Supported : Manufacture  
 Use as an intermediate  
 Formulation  
 Use in coatings – industrial  
 Use in coatings – professional  
 Use in Coatings - Consumer  
 Use as a cleaning agent – industrial  
 Use as a cleaning agent – professional  
 Use as a cleaning agent – consumer  
 Use in Oil and Gas field drilling and production operations - Industrial  
 Use in Oil and Gas field drilling and production operations – Professional  
 Lubricants - Industrial  
 Lubricants - Professional  
 Lubricants - Consumer  
 Metal working fluids / rolling oils - Industrial  
 Metal working fluids / rolling oils – Professional  
 Functional Fluids - Industrial  
 Functional Fluids - Professional  
 Functional Fluids - Consumer  
 Use in mining – industrial  
 Use in polymer production – industrial

**1.3****Details of the supplier of the safety data sheet**

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**Company** : Chevron Phillips Chemical Company LP  
Normal Alpha Olefins (NAO)  
10001 Six Pines Drive  
The Woodlands, TX 77380

**Local** : Chevron Phillips Chemicals International N.V.  
Airport Plaza (Stockholm Building)  
Leonardo Da Vincilaan 19  
1831 Diegem  
Belgium

SDS Requests: (800) 852-5530  
Technical Information: (832) 813-4862  
Responsible Party: Product Safety Group  
Email:sds@cpchem.com

**1.4****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****2.1****Classification of the substance or mixture  
REGULATION (EC) No 1272/2008**

Aspiration hazard, Category 1

H304:

May be fatal if swallowed and enters airways.

**2.2****Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal Word : Danger

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

Precautionary Statements : **Response:**

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

P331  
**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an  
approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

- 1120-36-1 1-Tetradecene

**Additional Labeling:**

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH066

Repeated exposure may cause skin dryness or cracking.

**SECTION 3: Composition/information on ingredients****3.1 - 3.2****Substance or Mixture**

Synonyms : Tetradec-1-ene (C<sub>14</sub>H<sub>28</sub>)  
1-Tetradecene (C<sub>14</sub>H<sub>28</sub>)  
NAO 14 (C<sub>14</sub>H<sub>28</sub>)

Molecular formula : C<sub>14</sub>H<sub>28</sub>

**Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
<b>1-Tetradecene</b>	<b>1120-36-1</b> <b>214-306-9</b>	Asp. Tox. 1; H304	94
2-Butyl-1-Decene	51655-65-3	Asp. Tox. 1; H304	2
2-Ethyl-1-Dodecene	19780-34-8	Asp. Tox. 1; H304	2
2-Hexyl-1-Octene	19780-80-4	Asp. Tox. 1; H304	1
Related Materials			1

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1****Description of first-aid measures**

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- 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 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. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Do not ingest. If swallowed then seek immediate medical assistance.

**SECTION 5: Firefighting measures**

Flash point : 107°C (225°F)

Autoignition temperature : 235°C (455°F)

**5.1****Extinguishing media**

Unsuitable extinguishing media : High volume water jet.

**5.2****Special hazards arising from the substance or mixture**

Specific hazards during fire fighting : Standard procedure for chemical fires.

**5.3****Advice for firefighters**

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire and explosion protection : Normal measures for preventive fire protection.

Hazardous decomposition products : No data available.

**SECTION 6: Accidental release measures****6.1****Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Ensure adequate

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ventilation.

**6.2****Environmental precautions**

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.

**6.3****Methods and materials for containment and cleaning up**

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

**6.4****Reference to other sections**

Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.

A quantitative risk assessment is not required for the environment.

A quantitative risk assessment is not required for human health.

**SECTION 7: Handling and storage****7.1****Precautions for safe handling  
Handling**

Advice on safe handling : 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.

**7.2****Conditions for safe storage, including any incompatibilities****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****8.1****Control parameters**

PNEC : Fresh water  
Value: 0,001 mg/l

PNEC : Sea water  
Value: 0,001 mg/l

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PNEC	:	Fresh water sediment Value: 67,62 mg/kg
PNEC	:	Sea sediment Value: 67,62 mg/kg
PNEC	:	Soil Value: 13,5 mg/kg

**8.2****Exposure controls****Engineering measures**

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. If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes.
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:. Protective suit. Safety shoes.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

A quantitative risk assessment is not required for the environment.  
A quantitative risk assessment is not required for human health.

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**SECTION 9: Physical and chemical properties****9.1****Information on basic physical and chemical properties****Appearance**

Form : Liquid  
 Physical state : Liquid  
 Color : Colorless

**Safety data**

Flash point : 107°C (225°F)

Lower explosion limit : > 0,5 %(V)

Upper explosion limit : < 5,4 %(V)

Oxidizing properties : no

Autoignition temperature : 235°C (455°F)

Molecular formula : C<sub>14</sub>H<sub>28</sub>

Molecular weight : 196,42 g/mol

pH : Not applicable

Pour point : No data available

Melting point/range : -13,9°C (7,0°F)

Boiling point/boiling range : 251°C (484°F)

Vapor pressure : 0,01 MMHG  
 at 25°C (77°F)

< 0,10 kPa  
 at 65°C (149°F)

Relative density : 0,77  
 at 15,6 °C (60,1 °F)

Density : 775 kg/m<sup>3</sup>  
 at 15°C (59°F)

774 kg/m<sup>3</sup>  
 at 25°C (77°F)

750 kg/m<sup>3</sup>  
 at 50°C (122°F)

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: n-octanol/water : No data available

Viscosity, kinematic : 2,61 cSt

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at 20°C (68°F)

Relative vapor density : 6,8  
(Air = 1.0)

Evaporation rate : No data available

**SECTION 10: Stability and reactivity****10.1**

**Reactivity** : Stable at normal ambient temperature and pressure.

**10.2**

**Chemical stability** : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**10.3****Possibility of hazardous reactions**

**Hazardous reactions** : Hazardous reactions: Hazardous polymerization does not occur.

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

**10.4**

**Conditions to avoid** : No data available.

**10.5**

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

**10.6**

**Hazardous decomposition products** : No data available

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

**SECTION 11: Toxicological information****11.1****Information on toxicological effects****AlphaPlus® 1-Tetradecene**

**Acute oral toxicity** : LD50: > 5.000 mg/kg  
Species: Rat  
Sex: male and female  
Information given is based on data obtained from similar substances.

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**Acute inhalation toxicity** : LC50: > 5 mg/l  
 Exposure time: 4 h  
 Species: Rat  
 Test atmosphere: dust/mist  
 Method: Acute toxicity estimate  
 Information given is based on data obtained from similar substances.  
 Not classified due to data which are conclusive although insufficient for classification.

**AlphaPlus® 1-Tetradecene  
 Acute dermal toxicity** : LD50 Dermal: > 2.020 mg/kg  
 Species: Rabbit  
 Sex: male and female  
 Information given is based on data obtained from similar substances.

**AlphaPlus® 1-Tetradecene  
 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-Tetradecene  
 Eye irritation** : No eye irritation  
 Information given is based on data obtained from similar substances.

**AlphaPlus® 1-Tetradecene  
 Sensitization** : Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.

**Genotoxicity in vitro**

1-Tetradecene : Test Type: Ames test  
 Metabolic activation: with and without metabolic activation  
 Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
 Result: negative

Test Type: Mammalian cell gene mutation assay  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Guideline 476  
 Result: negative

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

**Genotoxicity in vivo**

1-Tetradecene : Test Type: Micronucleus test  
 Species: Mouse  
 Method: Mutagenicity (micronucleus test)  
 Result: negative

**Reproductive toxicity**

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1-Tetradecene : Species: Rat  
 Sex: male  
 Application Route: Oral diet  
 Dose: 0, 100, 500, 1000 mg/kg  
 Exposure time: 43-47 days  
 Method: OECD Guideline 422  
 NOAEL Parent: 1.000 mg/kg  
 NOAEL F1: 1.000 mg/kg

Species: Rat  
 Sex: female  
 Application Route: Oral diet  
 Dose: 0, 100, 500, 1000 mg/kg  
 Exposure time: 46-47 days  
 Method: OECD Guideline 422  
 NOAEL Parent: 1.000 mg/kg  
 NOAEL F1: 1.000 mg/kg

**AlphaPlus® 1-Tetradecene  
 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-Tetradecene : Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Reproductive toxicity: No toxicity to reproduction

**AlphaPlus® 1-Tetradecene  
 Further information**

: Solvents may degrease the skin.

**SECTION 12: Ecological information****12.1****Toxicity****Toxicity to fish**

1-Tetradecene : LL50: > 1.000 mg/l  
 Exposure time: 96 h  
 Species: Oncorhynchus mykiss (rainbow trout)  
 semi-static test Test substance: yes  
 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-Tetradecene : EL50: > 1.000 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 Test substance: yes  
 Method: OECD Test Guideline 202  
 The product has low solubility in the test medium. An aqueous

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dispersion was tested.

**Toxicity to algae**

1-Tetradecene : EL50: > 1.000 mg/l  
Exposure time: 96 h  
Species: Selenastrum capricornutum (algae)  
static test Test substance: yes  
Method: OECD Test Guideline 201  
The product has low solubility in the test medium. An aqueous dispersion was tested.

**12.2****Persistence and degradability**

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

**12.3****Bioaccumulative potential**

Elimination information (persistence and degradability)

**12.4****Mobility in soil**

Mobility

1-Tetradecene : No data available

**12.5****Results of PBT and vPvB assessment**

Results of PBT assessment

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

**12.6****Other adverse effects**

Additional ecological information : No data available

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard

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

Long-term (chronic) aquatic hazard

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

**SECTION 13: Disposal considerations****13.1****Waste treatment methods**

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

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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.

A quantitative risk assessment is not required for the environment.

A quantitative risk assessment is not required for human health.

**SECTION 14: Transport information****14.1 - 14.7****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.

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

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

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

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

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

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

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

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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****15.1****Safety, health and environmental regulations/legislation specific for the substance or mixture  
National legislation**

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**15.2****Chemical Safety Assessment**

**Components** : tetradec-1-ene A Chemical Safety Assessment 214-306-9 has been carried out for this substance.

**Major Accident Hazard Legislation** : 96/82/EC Update: 2003  
Directive 96/82/EC does not apply

**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) TSCA : On or in compliance with the active portion of the TSCA inventory

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

Australia AICS : On the inventory, or in compliance with the inventory

New Zealand NZIoC : On the inventory, or in compliance with the inventory

Japan ENCS : On the inventory, or in compliance with the inventory

Korea KECI : 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

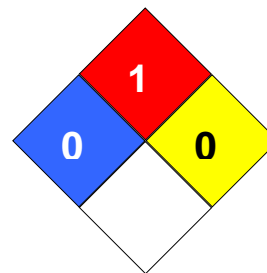
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**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 0  
Fire Hazard: 1  
Reactivity Hazard: 0

**Further information**

Legacy SDS Number : PE0020

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 Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act

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	New Chemical Substances		
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%		

**Full text of H-Statements referred to under sections 2 and 3.**

H304                      May be fatal if swallowed and enters airways.