AlphaPlus® C14-16 Blend

Version 1.10 Revision Date 2019-12-11

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® C14-16 Blend
Material : 1115254, 1071133, 1102536, 1037023, 1037025, 1037020, 1037024, 1037022, 1037021

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-Hexadecene	629-73-2 211-105-8	Chevron Phillips Chemical Company LP 01-2119474686-23-0002

Relevant Identified Uses Supported :
Manufacture
Distribution
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

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 : **Prevention:**

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
Storage:	
P405	Store locked up.

Hazardous ingredients which must be listed on the label:
- 1120-36-1 1-Tetradecene

Additional Labeling:

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 6,5 %
The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 6,5 %
EUH066
Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 - 3.2
Substance or Mixture

Molecular formula : Mixture

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
1-Tetradecene	**1120-36-1** **214-306-9**	Asp. Tox. 1; H304	0 - 80
1-Hexadecene	629-73-2 211-105-8	Asp. Tox. 1; H304	0 - 55

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

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 : Move to fresh air. 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.
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. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point	:	110°C (230°F)
Autoignition temperature	:	230°C (446°F) estimated

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. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 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. Avoid contact with skin and eyes. 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 : Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

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	:	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.
Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	:	Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
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.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Color	:	Clear, colorless

Safety data

Flash point	:	110°C (230°F)
Lower explosion limit	:	0,5 %(V)
Upper explosion limit	:	5,6 %(V)
Oxidizing properties	:	no
Autoignition temperature	:	230°C (446°F) estimated
Thermal decomposition	:	No data available
Molecular formula	:	Mixture
Molecular weight	:	Varies
pH	:	Not applicable
Pour point	:	No data available
Freezing point		-12-4°C (10-39°F)
Boiling point/boiling range	:	250-280°C (482-536°F)

Vapor pressure	:	1,00 MMHG at 23,8°C (74,8°F)
Relative density	:	0,77 at 25 °C (77 °F)
Density	:	0,77 G/ML
Water solubility	:	Insoluble
Partition coefficient: n-octanol/water	:	No data available
Viscosity, kinematic	:	1,3 - 1,9 cSt at 40°C (104°F)
Relative vapor density	:	7,2 (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.

Hazardous reactions: Reacts violently with water.

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.

Thermal decomposition : No data available

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

Acute oral toxicity

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

AlphaPlus® C14-16 Blend
Acute inhalation toxicity : LC50: > 9,9 mg/l
Exposure time: 1 h
Species: Rat
Test atmosphere: dust/mist
Information given is based on data obtained from similar substances.

Acute dermal toxicity

1-Hexadecene : LD50: > 2020 mg/kg
Species: Rabbit
Sex: male and female
Information given is based on data obtained from similar substances.

AlphaPlus® C14-16 Blend
Skin irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin. Information refers to the main ingredient.

AlphaPlus® C14-16 Blend
Eye irritation : No eye irritation
Information refers to the main ingredient.

AlphaPlus® C14-16 Blend
Sensitization : Did not cause sensitization on laboratory animals. Information refers to the main ingredient.

Repeated dose toxicity

1-Hexadecene : Species: Rat, Male and female
Sex: Male and female
Application Route: oral gavage
Dose: 100, 500, or 1000 mg/kg/day
Exposure time: 42- 51 days

Number of exposures: Daily
NOEL: 1000 mg/kg bw/day
Method: OECD Guideline 422
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-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
1-Hexadecene	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation 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 Result: negative Test Type: Chromosome aberration test in vitro Result: negative

Genotoxicity in vivo

1-Tetradecene	:	Test Type: Micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test) Result: negative
1-Hexadecene		Test Type: Micronucleus test Species: Mouse Dose: 1,000, 10,000, 25,000 ppm Result: negative

Reproductive toxicity

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
1-Hexadecene	Species: Rat Sex: female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 41 to 55 days Method: OECD Guideline 421 NOAEL Parent: 1000 mg/kg bw/day NOAEL F1: 1000 mg/kg bw/day Information given is based on data obtained from similar substances.
	Species: Rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 42- 51days Method: OECD Guideline 422 NOAEL Parent: 1000 mg/kg bwday NOAEL F1: 1000 mg/kg bw/day Information given is based on data obtained from similar substances.

AlphaPlus® C14-16 Blend
Aspiration toxicity : May be fatal if swallowed and enters airways.

CMR effects

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

AlphaPlus® C14-16 Blend
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.
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-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 dispersion was tested.
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-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.
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.

12.2

Persistence and degradability

Biodegradability	:	This material is expected to be readily biodegradable.

12.3

Bioaccumulative potential
Elimination information (persistence and degradability)

Bioaccumulation

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

12.4
Mobility in soil

Mobility

1-Tetradecene	:	No data available
1-Hexadecene	:	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
1-Hexadecene	:	Non-classified PBT substance, Non-classified vPvB substance

12.6
Other adverse effects

Additional ecological information	:	No data available
		No data available

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

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

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)

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)

Water contaminating class (Germany) : WGK 1 slightly water endangering

15.2

Chemical Safety Assessment

Components :	tetradec-1-ene	A Chemical Safety Assessment has been carried out for this substance.	214-306-9
Chemical Safety Assessment			
	hexadec-1-ene	A Chemical Safety Assessment has been carried out for this substance.	211-105-8

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

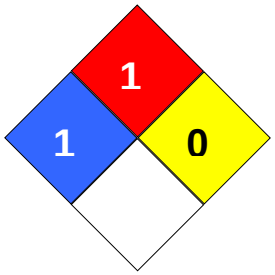
Notification status

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	:	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

SECTION 16: Other information

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



Further information

Legacy SDS Number : 6748

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 New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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

H304 May be fatal if swallowed and enters airways.