

Version 2.7 Revision Date 2022-11-30

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

**Product information** 

Product Name : 1-Tetradecene (C14H28)

Company : Qatar Chemical Company LTD (QChem)

Amwal Tower, Omar Al Mukhtar St,

Al-Dafna (Zone 61) PO Box 24646 Doha, Qatar

SDS Requests: (+974) 4484-7110
Technical Information: (+974) 4476-7145
Responsible Party: Product Safety Group
Email: MSDSInquiry@qchem.com.qa

#### **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

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

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

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Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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

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

: Aspiration hazard, Category 1

Labeling

Symbol(s)

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.

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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 : Tetradec-1-ene (C14H28)

1-Tetradecene (C14H28)

NAO 14 (C14H28)

Molecular formula : C14H28

Component	CAS-No.	Weight %
1-Tetradecene	1120-36-1	94
2-Butyl-1-Decene	51655-65-3	2
2-Ethyl-1-Dodecene	19780-34-8	2
2-Hexyl-1-Octene	19780-80-4	1
Related Materials		1

#### **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 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.

#### **SECTION 5: Firefighting measures**

Flash point : 107°C (225°F)

Autoignition temperature : 235°C (455°F)

Unsuitable extinguishing

media

: High volume water jet.

Specific hazards during fire

fighting

: Standard procedure for chemical fires.

Special protective : Wear self-contained breathing apparatus for firefighting if

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equipment for fire-fighters

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**

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation.

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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Keep in suitable, closed

containers for disposal.

#### **SECTION 7: Handling and storage**

### 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.

#### **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**

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

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Respiratory protection : If ventilation or other engineering controls are not adequate to

maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Dusts and Mists / P100. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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: 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.

#### **SECTION 9: Physical and chemical properties**

#### 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 : C14H28

Molecular weight : 196.42 g/mol

pH : Not applicable

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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/m3

at 15°C (59°F)

774 kg/m3 at 25°C (77°F)

750 kg/m3 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

at 20°C (68°F)

Relative vapor density : 6.8

(Air = 1.0)

Evaporation rate : No data available

#### **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

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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**

1-Tetradecene (C14H28)

Acute oral toxicity : LD50: > 5,000 mg/kg

Species: Rat

Sex: male and female

Information given is based on data obtained from similar

substances.

1-Tetradecene (C14H28)

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.

1-Tetradecene (C14H28)

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.

1-Tetradecene (C14H28)

Skin irritation

: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of

the skin.

1-Tetradecene (C14H28)

Eye irritation

No eye irritation

Information given is based on data obtained from similar

substances.

1-Tetradecene (C14H28)

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

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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

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-Tetradecene (C14H28)

**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

1-Tetradecene (C14H28)

**Further information** : Solvents may degrease the skin.

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#### **SECTION 12: Ecological information**

#### 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

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.

Biodegradability : According to the results of tests of biodegradability this

product is considered as being readily biodegradable.

Elimination information (persistence and degradability)

Mobility

1-Tetradecene : No data available

Results of PBT assessment

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

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.

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Long-term (chronic) aquatic hazard

1-Tetradecene : 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.

#### 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

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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.

Other information : OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

#### **SECTION 15: Regulatory information**

#### **National legislation**

SARA 311/312 Hazards : Acute Health Hazard

**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.

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).

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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**

Massachusetts Right To Know

: No components are subject to the Massachusetts Right to

Know Act.

Pennsylvania Right To Know

: 1-Tetradecene - 1120-36-1

New Jersey Right To Know

: 1-Tetradecene - 1120-36-1 2-Butyl-1-Decene - 51655-65-3 2-Ethyl-1-Dodecene - 19780-34-8 2-Hexyl-1-Octene - 19780-80-4

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 product is in full compliance according to REACH

regulation 1907/2006/EC.

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

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

TSCA TSCA inventory

Canada DSL All components of this product are on the Canadian

Other AIIC 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 Philippines PICCS On the inventory, or in compliance with the inventory A substance(s) in this product was not registered, Korea KECI

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 or the exported amount does not exceed the minimum threshold

quantity of the non-registered substance(s).

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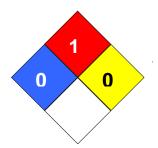
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Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

#### **SECTION 16: Other information**

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



#### **Further information**

Legacy SDS Number : QCHEM013

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				
American Conference of	LD50	Lethal Dose 50%		
	LOAEL	Lowest Observed Adverse Effect Level		
	NEDA			
List	NFPA	National Fire Protection Agency		
Canada, Non-Domestic	NIOSH	National Institute for Occupational		
Substances List		Safety & Health		
Central Nervous System	NTP	National Toxicology Program		
Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals		
Effective Concentration	NOAEL	No Observable Adverse Effect Level		
Effective Concentration 50%	NOEC	No Observed Effect Concentration		
EOSCA Generic Exposure	OSHA	Occupational Safety & Health		
Scenario Tool		Administration		
European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit		
European Inventory of Existing	PICCS	Philippines Inventory of		
Chemical Substances		Commercial Chemical Substances		
Germany Maximum Concentration Values	PRNT	Presumed Not Toxic		
Globally Harmonized System	RCRA	Resource Conservation Recovery Act		
Greater Than or Equal To	STEL	Short-term Exposure Limit		
Inhibition Concentration 50%	SARA	Superfund Amendments and		
		Reauthorization Act.		
International Agency for Research on Cancer	TLV	Threshold Limit Value		
	American Conference of Government Industrial Hygienists Australia, Inventory of Chemical Substances Canada, Domestic Substances List Canada, Non-Domestic Substances List Central Nervous System Chemical Abstract Service  Effective Concentration  Effective Concentration 50% EOSCA Generic Exposure Scenario Tool European Oilfield Specialty Chemicals Association European Inventory of Existing Chemical Substances Germany Maximum Concentration Values Globally Harmonized System  Greater Than or Equal To Inhibition Concentration 50%	American Conference of Government Industrial Hygienists  Australia, Inventory of Chemical Substances  Canada, Domestic Substances List  Canada, Non-Domestic Substances List  Central Nervous System Chemical Abstract Service  Effective Concentration  Effective Concentration 50%  Scenario Tool  European Oilfield Specialty Chemical Substances Germany Maximum Concentration  Final Piccs  Greater Than or Equal To Inhibition Concentration 50%  LOAEL  NFPA  NIOSH NIOSH NIOSH NOEC  NOAEL  NOAEL  PEL Chemical Substances  Germany Maximum Concentration Values  Globally Harmonized System  RCRA  International Agency for Research  TLV		

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IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
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%	ATE	Acute toxicity estimate

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