

Version 1.7 Revision Date 2020-08-10

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

**Product information** 

Product Name : Toluene Reference, Fuel Grade

Material : 1016965, 1016964, 1016968, 1016967, 1016963, 1016966

Use : Reference Fuel

Company : Chevron Phillips Chemical Company LP

Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380

#### **Emergency telephone:**

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

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

Flammable liquids, Category 2 Skin irritation, Category 2 Reproductive toxicity, Category 2

Specific target organ toxicity - single exposure, Category 3,

Central nervous system

Specific target organ toxicity - repeated exposure, Category 2,

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Inhalation, Auditory organs, color vision Aspiration hazard, Category 1

#### Labeling

Symbol(s)







Signal Word : Danger

Hazard Statements : H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness. H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs (Auditory organs, color vision) through prolonged or repeated exposure if inhaled.

Precautionary Statements

#### : Prevention:

P201 Obtain special instructions before use.

P210 Keep away from heat/ sparks/ open flames/ hot

surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

#### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

OFNITED / Leater '( .... (a) Leathing. Call a

CENTER/ doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P331 Do NOT induce vomiting.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

#### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

#### Disposal:

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

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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.

#### **SECTION 3: Composition/information on ingredients**

Synonyms : Toluol

Toluene (Reference Fuel)

Molecular formula : C7H8

Component	CAS-No.	Weight %
Toluene	108-88-3	99.95

#### **SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : Consult a physician after significant exposure. If unconscious,

place in recovery position and seek medical advice.

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. 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 : 4.4°C (39.9°F)

Method: closed cup

Autoignition temperature : 529°C (984°F)

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

: High volume water jet.

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Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed

containments. Use a water spray to cool fully closed

containers.

Fire and explosion protection

: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames,

hot surfaces and sources of ignition.

Hazardous decomposition

products

Carbon oxides.

#### **SECTION 6: Accidental release measures**

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low

areas.

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

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

#### Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid

exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with

local and national regulations.

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use

only explosion-proof equipment. Keep away from open flames,

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hot surfaces and sources of ignition.

#### **Storage**

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Use : Reference Fuel

#### **SECTION 8: Exposure controls/personal protection**

#### Ingredients with workplace control parameters

#### US

Components	Basis	Value	Control parameters	Note
Toluene	ACGIH	TWA	20 ppm,	A4,
	OSHA Z-2	TWA	200 ppm,	
	OSHA Z-2	CEIL	300 ppm,	
	OSHA Z-2	Peak	500 ppm,	
	OSHA Z-1-A	TWA	100 ppm, 375 mg/m3	
	OSHA Z-1-A	STEL	150 ppm, 560 mg/m3	

A4 Not classifiable as a human carcinogen

#### Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 parts per million	1995-03-01

#### **Biological exposure indices**

#### US

Substance name	CAS-No.	Control parameters	Sampling time	Update
Toluene	108-88-3	Toluene: 0.02 mg/l (In blood)	Prior to last shift of workweek	2010-03-01
		Toluene: 0.03 mg/l (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
		o-Cresol: 0.3 mg/g Creatinine Background (Urine) With hydrolyses ()	End of shift (As soon as possible after exposure ceases)	2010-03-01

## **Engineering measures**

Adequate ventilation to control airborned 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

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ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators

may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

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

#### Information on basic physical and chemical properties

#### **Appearance**

Form : Non-viscous
Physical state : Liquid
Color : Clear

Odor : Strong gasoline

Safety data

Flash point : 4.4°C (39.9°F)

Method: closed cup

Lower explosion limit : 1.2 %(V)

Upper explosion limit : 7.1 %(V)

Oxidizing properties : No

Autoignition temperature : 529°C (984°F)

Molecular formula : C7H8

Molecular weight : 92.15 g/mol

pH : Not applicable

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Pour point : No data available

Freezing point -94.5°C (-138.1°F)

Boiling point/boiling range : 110.6°C (231.1°F)

Vapor pressure : 1.10 PSI

at 37.8°C (100.0°F)

Relative density : 0.870

at 15.6 °C (60.1 °F)

Density : 0.870 kg/m3

Water solubility : Soluble in alcohol, benzene, and ether; insoluble in water.

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : 2.8

(Air = 1.0)

Evaporation rate : 4.5

Percent volatile : > 99 %

Conductivity : 8 pSm

at 20 °C

Method: ASTM D4308

#### **SECTION 10: Stability and reactivity**

**Reactivity** : Stable under recommended storage conditions.

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 polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

air.

Further information: No decomposition if stored and applied as

directed.

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**Conditions to avoid** : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

**Hazardous decomposition** 

products

: Carbon oxides

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

#### **SECTION 11: Toxicological information**

**Acute oral toxicity** 

Toluene : LD50: 6,500 mg/kg

Species: Rat Sex: Not Specified

Acute inhalation toxicity

Toluene : LC50: 25.7 - 30 mg/l

Exposure time: 4 h Species: Rat

Test atmosphere: vapor

Acute dermal toxicity

Toluene : LD50: 12,400 mg/kg

Species: Rabbit Sex: Not Specified

Skin irritation

Toluene : Skin irritation

Eye irritation

Toluene : slight irritation. Not classified due to data which are

conclusive although insufficient for classification.

Sensitization

Toluene : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

Toluene : Species: Rat

Application Route: Inhalation Dose: 0, 100, 625, 1250, 3000 ppm

Exposure time: 15 wk

Number of exposures: 6.5 h/d, 5 d/wk

NOEL: 625 ppm

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Species: Mouse

Application Route: Inhalation Dose: 0, 100, 625, 1250, 3000 ppm

Exposure time: 14 wk

Number of exposures: 6.5 h/d, 5 d/wk

NOEL: 100 ppm

Genotoxicity in vitro

Toluene : Test Type: Ames test

Result: negative

Test Type: Sister Chromatid Exchange Assay

Result: negative

Test Type: Mouse lymphoma assay

Result: negative

Test Type: Cytogenetic assay

Result: negative

Genotoxicity in vivo

Toluene : Test Type: Cytogenetic assay

Result: negative

Test Type: Mouse micronucleus assay

Result: negative

Carcinogenicity

Toluene : Species: Rat

Dose: 0, 600, 1200 ppm Exposure time: 2 yrs

Number of exposures: 6.5 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

Species: Mouse Dose: 0, 600, 1200 ppm Exposure time: 2 yrs

Number of exposures: 6.5 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

Reproductive toxicity

Toluene : Species: Rat

Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm

Test period: 95 d

NOAEL Parent: 2000 ppm

**Developmental Toxicity** 

Toluene : Species: Rat

Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm

Test period: 95 d

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NOAEL Teratogenicity: 400-750 ppm

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**Aspiration toxicity** : May be fatal if swallowed and enters airways.

**CMR** effects

Toluene : Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Animal testing did not show any mutagenic

effects.

Teratogenicity: Some evidence of adverse effects on

development, based on animal experiments.

Reproductive toxicity: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on

animal experiments.

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**Further information** : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents

may degrease the skin.

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

Toxicity to fish

Toluene : LC50: 18 - 36 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates

Toluene : EC50: 3.78 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

Toluene : EC50: 134 mg/l

Exposure time: 72 h

Species: Chlamydomonas angulosa (Green algae)

Biodegradability

Toluene : This material is expected to be readily biodegradable.

Results of PBT assessment

Toluene : Non-classified vPvB substance, Non-classified PBT substance

Additional ecological

: Toxic to aquatic life., Harmful to aquatic life with long lasting

information effects.

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#### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard

Toluene : Toxic to aquatic life.

Long-term (chronic) aquatic hazard

Toluene : Harmful to aquatic life with long lasting effects.

#### **SECTION 13: Disposal considerations**

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

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water

courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed

waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers. Do not burn, or use a cutting

torch on, the empty drum.

#### **SECTION 14: Transport information**

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

#### **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

UN1294, TOLUENE, 3, II, RQ (TOLUENE)

## IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1294, TOLUENE, 3, II, (4.4°C)

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1294, TOLUENE, 3, II

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

UN1294, TOLUENE, 3, II, (D/E)

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

UN1294, TOLUENE, 3, II

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

UN1294, TOLUENE, 3, II

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 : Flammable (gases, aerosols, liquids, or solids)

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Skin corrosion or irritation

CERCLA Reportable

Quantity

: 1000 lbs

Toluene

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: This material does not contain any components with a section

302 EHS TPQ.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Components : The following components are subject to reporting levels

established by SARA Title III, Section 313:

: Toluene - 108-88-3

Clean Air Act

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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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

: Toluene - 108-88-3 Benzene - 71-43-2

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Toluene - 108-88-3 Benzene - 71-43-2

## **US State Regulations**

Pennsylvania Right To Know

: Toluene - 108-88-3 Benzene - 71-43-2

California Prop. 65 Components : WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to

cause cancer. For more information go to

www.P65Warnings.ca.gov/food.

Benzene 71-43-2

WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

On the inventory, or in compliance with the inventory

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Toluene 108-88-3 Benzene 71-43-2

**Notification status** 

Europe REACH : This product is in full compliance according to REACH

regulation 1907/2006/EC.

Switzerland CH INV

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

TSCA

TSCA inventory

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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: 2

Fire Hazard: 3 Reactivity Hazard: 0



#### **Further information**

Legacy SDS Number : 3476

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	OSHA	Occupational Safety & Health	

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	Scenario Tool		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%		

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