

Version 2.4 Revision Date 2022-06-23

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

Product information

Product Name : Sulfolane W

Material : 1126373, 1120162, 1099779, 1100043, 1024627, 1024628,

1024629, 1024630, 1024631, 1024632, 1024633

Use : Solvent

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

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)

SDS Number:100000013352 1/15

Version 2.4 Revision Date 2022-06-23

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

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

: Reproductive toxicity, Category 1B

Labeling

Symbol(s) :

Signal Word : Danger

Hazard Statements : H360: May damage fertility or the unborn child.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been

read and understood.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

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

attention. **Disposal:**

P501 Dispose of contents/ container to an approved waste

disposal plant.

SDS Number:100000013352 2/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

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 : tetramethylene Sulfone

Sulfolane W Sulfolane w/Water

Tetrahydrothiophene 1,1-dioxide

Molecular formula : C4H8SO2

Component	CAS-No.	Weight %
Sulfolane	126-33-0	96.5 - 100

SECTION 4: First aid measures

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

sheet to the doctor in attendance.

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 : Induce vomiting immediately and call a physician. 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 : 166°C (331°F)

Method: Cleveland Open Cup

Autoignition temperature : No data available

Unsuitable extinguishing

media

: High volume water jet.

Specific hazards during fire

fighting

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

courses.

SDS Number:100000013352 3/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

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.

Fire and explosion

protection

: Normal measures for preventive fire protection.

Hazardous decomposition

products

: Carbon oxides. Sulfur oxides.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment.

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. 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. 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. Electrical installations / working materials must comply with the

technological safety standards.

Use : Solvent

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Chevron Phillips Chemical Company LP

Components	Basis	Value	Control parameters	Note
Sulfolane	Manufacturer	TWA	0.37 ppm,	

SDS Number:100000013352 4/15

Version 2.4 Revision Date 2022-06-23

US

Components	Basis	Value	Control parameters	Note

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

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:. Use a positive pressure, air-supplying respirator 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 : clear

Odor : Slight ammonium like

Safety data

Flash point : 166°C (331°F)

SDS Number:100000013352 5/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

Method: Cleveland Open Cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : C4H8SO2

Molecular weight : 120.18 g/mol

pH : Not applicable

Freezing point : 5.5-10°C (41.9-50°F)

Pour point No data available

Boiling point/boiling range : 100-286°C (212-547°F)

Vapor pressure : No data available

Relative density : 1.26

at 30 °C (86 °F)

Water solubility : partly soluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : 1

(Air = 1.0)

Evaporation rate : 1

Percent volatile : > 99 %

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

SDS Number:100000013352 6/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

Hazardous reactions : Hazardous polymerization does not

occur.

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

Other data

: Carbon oxides Sulfur oxides

: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute oral toxicity

Sulfolane : LD50: 2,068 mg/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 401

Acute inhalation toxicity

Sulfolane : LC50: > 12000 mg/m3Exposure time: 4 h

Species: Rat

Sex: male and female Test atmosphere: vapor

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable

concentration.

Acute dermal toxicity

Sulfolane : LD50: > 2,000 mg/kg

Species: Rat

Method: Directive 67/548/EEC, Annex V, B.3.

Skin irritation

Sulfolane : No skin irritation

Eye irritation

Sulfolane : No eye irritation

Sensitization

Sulfolane : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

Sulfolane : Species: Rat, Male and female

Sex: Male and female Application Route: Oral

SDS Number:100000013352 7/15

Version 2.4 Revision Date 2022-06-23

Dose: 60, 200, 700 mg/kg bw/day

Exposure time: 28 d Number of exposures: Daily NOEL: 200 mg/kg bw/day

Lowest observable effect level: 700 mg/kg bw/day

Species: Rat

Application Route: Inhalation Dose: 2.8, 4.0, 20 mg/m3 Exposure time: 90-110 days

Number of exposures: 23 hrs/d, 7d/wk

NOEL: 20 mg/m3

Species: Guinea pig

Application Route: Inhalation Dose: 4.0, 20, 159, 200 mg/m3 Exposure time: 90-110 days

Number of exposures: 23 hrs/d, 7 d/wk

NOEL: 159 mg/m3

Target Organs: Lungs, Blood, Liver

Species: Rat, male

Sex: male

Application Route: Oral diet Dose: 2.1, 8.8, 35, 131.7 mg/kg/d

Exposure time: 13 wk Number of exposures: Daily

NOEL: 8.8 mg/kg

Method: OECD Test Guideline 408

Target Organs: Kidney

Species: Rat, female

Sex: female

Application Route: Oral diet

Dose: 2.9, 10.6, 42, 191.1 mg/kg/d

Exposure time: 13 wk Number of exposures: Daily

NOEL: 2.9 mg/kg

Method: OECD Test Guideline 408 Target Organs: Immune system

Genotoxicity in vitro

Sulfolane : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

SDS Number:100000013352 8/15

Version 2.4 Revision Date 2022-06-23

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Sister Chromatid Exchange Assay

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 490

Result: negative

Reproductive toxicity

Sulfolane : Species: Rat

Sex: female

Application Route: oral gavage Dose: 60, 200, 700 mg/kg Number of exposures: Daily

Test period: 2 wk premating to lactation D4

Method: OECD Guideline 421 NOAEL Parent: 200 mg/kg bw/day NOAEL F1: 60 mg/kg bw/day

Decrease birth index and number of pups

Developmental Toxicity

Sulfolane : Species: Rat

Application Route: oral gavage Dose: 60, 200, 700 mg/kg Number of exposures: Daily

Test period: 2 wk premating to lactation D4 NOAEL Teratogenicity: 60 mg/kg bw/day NOAEL Maternal: 200 mg/kg bw/day

Species: Rat

Application Route: oral gavage Dose: 100, 200, 500 mg/kg/day Number of exposures: Daily Test period: GD 1 - 19

NOAEL Teratogenicity: 200 mg/kg NOAEL Maternal: 100 mg/kg May damage the unborn child.

Sulfolane W

Aspiration toxicity : No aspiration toxicity classification.

CMR effects

Sulfolane : Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures

SDS Number:100000013352 9/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

did not show mutagenic effects.

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

animal experiments

Sulfolane W

Further information : No data available.

SECTION 12: Ecological information

Toxicity to fish

Sulfolane : LC50: > 100 mg/l

Exposure time: 96 h

Species: Oryzias latipes (Orange-red killifish) static test Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Sulfolane : EC50: 852 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae

Sulfolane : EC50: 500 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

NOEC: 171 mg/l Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Biodegradability

Sulfolane : Result: Not readily biodegradable.

10.1 %

Testing period: 14 d

Method: OECD Test Guideline 301C

Bioaccumulation

Sulfolane : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): < 1.3

This material is not expected to bioaccumulate.

Mobility

SDS Number:100000013352 10/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

Sulfolane : Groundwater contamination is possible.

Results of PBT assessment

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

Additional ecological

nformation

information

This material is not expected to be harmful to aquatic

organisms.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

Sulfolane : This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic hazard

Sulfolane : 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

SDS Number:100000013352 11/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

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.

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Reproductive toxicity

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

: 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.

SDS Number:100000013352 12/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

SARA 313 Components : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

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

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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):

: Sulfolane - 126-33-0

US State Regulations

Pennsylvania Right To Know

: Sulfolane - 126-33-0 Water - 7732-18-5

California Prop. 65

: This product, as shipped, does not contain any carcinogens or Components reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.

Notification status

This product is in full compliance according to REACH Europe REACH

regulation 1907/2006/EC.

Switzerland CH INV On the inventory, or in compliance with the inventory United States of America (USA) On or in compliance with the active portion of the

TSCA TSCA inventory

Canada DSL All components of this product are on the Canadian

DSL

On the inventory, or in compliance with the inventory Other AIIC

New Zealand NZIoC Not in compliance with the inventory

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

SDS Number:100000013352 13/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

Korea KECI : A substance(s) in this product was not registered,

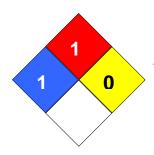
notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS : On the inventory, or in compliance with the inventory 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: 1

Fire Hazard: 1 Reactivity Hazard: 0



Further information

Legacy SDS Number : 2073

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

SDS Number:100000013352 14/15

Sulfolane W

Version 2.4 Revision Date 2022-06-23

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%		

SDS Number:100000013352 15/15