

**Dimethyl Disulfide**

Version 4.0

Revision Date 2021-04-05

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

Product Name : Dimethyl Disulfide  
Material : 1123753, 1121187, 1119676, 1093527, 1086484, 1095605,  
1095604, 1095602, 1097432, 1093526, 1095603, 1076483,  
1034521, 1035203, 1031147, 1032633, 1034638, 1031751,  
1036662, 1034642, 1031840, 1036791, 1036352, 1034364,  
1036792, 1036131, 1024538

Use : Chemical intermediate

**Company** : Chevron Phillips Chemical Company LP  
Specialty Chemicals  
10001 Six Pines Drive  
The Woodlands, TX 77380

Local : See Company Address

**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****GHS Classification and labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015)****Classification****II**

: Flammable liquids, Category 2

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Acute toxicity, Category 3, Oral  
 Acute toxicity, Category 3, Inhalation  
 Skin corrosion/irritation, Category 2  
 Serious eye damage/eye irritation, Category 2B  
 Reproductive toxicity, Category 2  
 Specific target organ toxicity - single exposure, Category 1, Inhalation, Respiratory Tract  
 Specific target organ toxicity - single exposure, Category 3, Narcotic effects  
 Specific target organ toxicity - repeated exposure, Category 1, respiratory system, Olfactory organ  
 Short-term (acute) aquatic hazard, Category 2  
 Long-term (chronic) aquatic hazard, Category 1

**Labeling**

Symbol(s)



Signal Word

: Danger

Hazard Statements

: H225: Highly flammable liquid and vapor.  
 H301 + H331: Toxic if swallowed or if inhaled.  
 H315 + H320: Causes skin and eye irritation.  
 H336: May cause drowsiness or dizziness.  
 H361: Suspected of damaging fertility or the unborn child.  
 H370: Causes damage to organs (Respiratory Tract) if inhaled.  
 H372: Causes damage to organs (respiratory system, Olfactory organ) through prolonged or repeated exposure.  
 H401: Toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
 P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233: Keep container tightly closed.  
 P240: Ground and bond container and receiving equipment.  
 P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242: Use non-sparking tools.  
 P243: Take action to prevent static discharges.  
 P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
 P264: Wash skin thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
 P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
 P304 + P340 + P311: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.  
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with

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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P311: IF exposed or concerned: Call a POISON CENTER/ doctor.

P332 + P313: If skin irritation occurs: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/ attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391: Collect spillage.

**Storage:**

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

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

P405: Store locked up.

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

Synonyms : DMDS,  
Disulfide, dimethyl  
Dimethyl disulfide,  
Dimethyl disulphide,  
(Methyldithio) methane  
Methyl disulfide  
CPChem Dimethyl Disulfide

Molecular formula : C<sub>2</sub>H<sub>6</sub>S<sub>2</sub>

Chemical name	CAS-No.	Concentration	ENCS/ISHL number
Dimethyl Disulfide	624-92-0	99 % - 100%	2-477 2-478 2-2421

**SECTION 4: First aid measures**

General advice : Move out of dangerous area. Consult a physician. 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 : Immediately flush eye(s) with plenty of water. 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

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an unconscious person. If symptoms persist, call a physician.  
Take victim immediately to hospital.

**SECTION 5: Firefighting measures**

Flash point	:	15°C (59°F) Method: closed cup
Autoignition temperature	:	No data available
Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical.
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.
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 a naked flame or any 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	:	Hydrogen Sulfide. Sulfur 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).

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**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. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any 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.

**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 : Chemical intermediate

**SECTION 8: Exposure controls/personal protection****Engineering measures**

Adequate ventilation to control airborne 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

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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.
- 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. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals.
- Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

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

- Form : liquid  
 Physical state : liquid  
 Color : Yellow  
 Odor : Mildly unpleasant

**Safety data**

- Flash point : 15°C (59°F)  
 Method: closed cup
- Lower explosion limit : 1.1 %(V)
- Upper explosion limit : 16 %(V)
- Oxidizing properties : No
- Autoignition temperature : No data available
- Molecular formula : C<sub>2</sub>H<sub>6</sub>S<sub>2</sub>
- Molecular weight : 94.2 g/mol
- pH : No data available
- Pour point : No data available
- Boiling point/boiling range : 109°C (228°F)

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Vapor pressure	: 28.60 MMHG at 25°C (77°F)
Relative density	: 1.06 at 4 °C (39 °F)
Water solubility	: negligible
Partition coefficient: n-octanol/water	: Pow: 1.77
Viscosity, dynamic	: 0.62 mPa.s
Relative vapor density	: 3.25 (Air = 1.0)
Evaporation rate	: No data available
Percent volatile	: > 99 %

**SECTION 10: Stability and reactivity**

<b>Reactivity</b>	: Stable under recommended storage conditions.
<b>Chemical stability</b>	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Possibility of hazardous reactions</b>	
<b>Hazardous reactions</b>	: Hazardous reactions: Hazardous polymerization does not occur.  Further information: No decomposition if stored and applied as directed.  Hazardous reactions: Vapors may form explosive mixture with air.
<b>Conditions to avoid</b>	: Heat, flames and sparks.
<b>Hazardous decomposition products</b>	: Hydrogen Sulfide Sulfur oxides
<b>Other data</b>	: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

<b>Acute oral toxicity</b>	
Dimethyl Disulfide	: Acute toxicity estimate: 190 mg/kg Method: Expert judgment

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**Acute inhalation toxicity**

Dimethyl Disulfide : LC50: 5.05 mg/l  
Exposure time: 4 h  
Species: Rat  
Test atmosphere: vapor  
Method: OECD Test Guideline 403

**Dimethyl Disulfide  
Skin irritation**

: May cause skin irritation and/or dermatitis.

**Dimethyl Disulfide  
Eye irritation**

: May cause irreversible eye damage.

**Dimethyl Disulfide  
Sensitization**

: Causes sensitization.

**Genotoxicity in vitro**

Dimethyl Disulfide : Test Type: Ames test  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
Result: negative

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

Test Type: DNA damage and repair assay  
Result: negative

Test Type: HGPRT assay  
Method: OECD Guideline 476  
Result: negative

**Genotoxicity in vivo**

Dimethyl Disulfide : Test Type: Mouse micronucleus assay  
Result: negative

**Aspiration toxicity**

Dimethyl Disulfide : May be harmful if swallowed and enters airways.

**CMR effects**

Dimethyl Disulfide : Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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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.



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

Dimethyl Disulfide : LC50: 0.97 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
static test

**Toxicity to daphnia and other aquatic invertebrates**

Dimethyl Disulfide : LC50: 1.82 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
semi-static test Method: OECD Test Guideline 202

**Toxicity to algae**

Dimethyl Disulfide : ErC50: 3.9 mg/l  
Exposure time: 96 h  
Species: Skeletonema costatum (Marine Algae)  
static test Method: OECD Test Guideline 201

**Toxicity to fish (Chronic toxicity)**

Dimethyl Disulfide : NOEC: 0.47 mg/l  
Exposure time: 38 d  
Species: Cyprinodon variegatus (sheepshead minnow)  
Method: OECD Test Guideline 210

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

Dimethyl Disulfide : NOEC: 0.0025 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

**Biodegradability**

Dimethyl Disulfide : aerobic  
Result: Partially biodegradable.  
50 - 60 %  
Testing period: 28 d  
Method: OECD Test Guideline 310  
The 10 day time window criterion is not fulfilled.  
Expected to be inherently biodegradable.

**Bioaccumulation**

Dimethyl Disulfide : This material is not expected to bioaccumulate.

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## Mobility

Dimethyl Disulfide : Groundwater contamination is unlikely.

## Results of PBT assessment

Dimethyl Disulfide : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information : Very toxic to aquatic life with long lasting effects.

**Ecotoxicology Assessment**

## Short-term (acute) aquatic hazard

Dimethyl Disulfide : Very toxic to aquatic life.

## Long-term (chronic) aquatic hazard

Dimethyl Disulfide : Very toxic 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)**

UN2381, DIMETHYL DISULFIDE, 3 (6.1), II, MARINE POLLUTANT, (DIMETHYL DISULFIDE)

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN2381, DIMETHYL DISULPHIDE, 3 (6.1), II, (15°C), MARINE POLLUTANT, (DIMETHYL

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DISULFIDE)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN2381, NON: NOT PERMITTED FOR TRANSPORT

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**UN2381, DIMETHYL DISULPHIDE, 3 (6.1), II, (D/E), ENVIRONMENTALLY HAZARDOUS,  
(DIMETHYL DISULFIDE)**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

UN2381, DIMETHYL DISULPHIDE, 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS, (DIMETHYL DISULFIDE)

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

UN2381, DIMETHYL DISULPHIDE, 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS, (DIMETHYL DISULFIDE)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**SECTION 15: Regulatory information****National legislation****Poisonous and Deleterious Substances Control Law**

: Not applicable

**Industrial Safety and Health Law**Substances Subject to be : dimethyl disulphide( 292 )  
Notified Names Article 57-2  
(Enforcement Order Table 9)Enforcement Order of the : Inflammable Substance  
Industrial Safety and Health  
Law - Attached table 1  
(Dangerous Substances)Enforcement Order of the : Inflammable Substance  
Industrial Safety and Health  
Law - Attached table 1  
(Dangerous Substances)

Harmful Substances Required : Not applicable

Permission for Manufacture

Hazardous Substances : dimethyl disulphide ( 292 )

Subject to Labeling

Requirements Article 57

(Enforcement Order Article

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18)  
 Ordinance on Prevention of Organic Solvent Poisoning : Not applicable  
 Ordinance on Prevention of Lead Poisoning : Not applicable  
 Harmful Substances Prohibited from Manufacture : Not applicable  
 Ordinance on Prevention of Hazards Due to Specified Chemical Substances : Not applicable  
 Ordinance on Prevention of Tetraalkyl Lead Poisoning : Not applicable  
 : Not applicable  
 : Not applicable

Substances Prevented From Impairment of Health : Not applicable  
 Listed

**Chemical Substance Control Law**

: Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

**Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof**

Class I Designated Chemical Substances : dimethyl disulphide( 219 )

**Other regulations**

Fire Service Law : Flammable liquids  
 Type 1 petroleums  
 Hazardous rank II

High Pressure Gas Safety Act : Not applicable

Explosive Control Law : Not applicable

Vessel Safety Law : Flammable liquids (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law : Loading forbidden

**Notification status**

Europe REACH : On the inventory, or in compliance with the inventory  
 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

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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	:	All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.
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****Further information**

Legacy SDS Number : 96150

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	TLV	Threshold Limit Value

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	on Cancer		
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%		