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n-Dodecyl Mercaptan

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according to GB/T 16483 and GB/T 17519

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

Product information

Product Name Material Company	 n-Dodecyl Mercaptan 1126864, 1124172, 1122303, 1111421, 1086421, 1071323, 1086420, 1086419, 1021569, 1024819, 1024820, 1021558, 1021567, 1021568, 1021571, 1021572, 1021573, 1021574, 1021575, 1033862, 1032614, 1021566, 1021570 Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380 	
Local	 Chevron Phillips Chemicals (Shanghai) Corporation Room 1810-1812, Shanghai Mart, 2299 Yan An Road (W), Shanghai, PRC 200336 Tel: (86-21) 22157200 	
Emergency telephone:		
Asia: CHEMWATCH Mexico CHEMTREC South America SOS- Argentina: +(54)-115 EUROPE: BIG +32.1 Austria: VIZ +43 1 40 Belgium: 070 245 24 Bulgaria: +359 2 915 Croatia: +3851 2348 Cyprus: 1401 Czech Republic: Tox Denmark: Danish Po Estonia: BIG +32.14. Finland: 0800 147 11 France: ORFILA num Germany: BIG +32.14 Greece: (0030) 2107 Hungary: +36-80-201 Iceland: 543 2222 (24 Ireland: BIG +32.14.5	national) .9300 or 703.527.3887(int'l) (+612 9186 1132) China: 0532 8388 9090 D1-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 0839431 4.584545 (phone) or +32.14583516 (telefax) 6 43 43 (24 hours/day, 7 days/week) i (24 hours/day, 7 days/week) 4 233 342 (24 hours/day, 7 days/week) cological Information Center +420 224 919 293, +420 224 915 402 son Center (Giftlinjen): +45 8212 1212 584545 (phone) or +32.14583516 (telefax) 1 09 471 977 (24 hours/day) ber (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 4.584545 (phone) or +32.14583516 (telefax) 1 09 471 977 (24 hours/day, 7 days/week) -199 (24 hours/day, 7 days/week) -199 (24 hours/day, 7 days/week) -hours/day, 7 days/week) 84545 (phone) or +32.14583516 (telefax)	
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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA - Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: 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 GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2013) Emergency Overview

Physical state: liquid	Color: Colorless Odor: Repulsive
Hazards	: Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. May be harmful if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Classification	
olassification	
Classification	: Skin corrosion/irritation, Category 1C
	Serious eye damage/eye irritation, Category 1
	Serious eye damage/eye irritation, Category 1 Skin sensitization, Category 1
	Serious eye damage/eye irritation, Category 1 Skin sensitization, Category 1 Aspiration hazard, Category 2
	Serious eye damage/eye irritation, Category 1 Skin sensitization, Category 1
Labeling	Serious eye damage/eye irritation, Category 1 Skin sensitization, Category 1 Aspiration hazard, Category 2 Short-term (acute) aquatic hazard, Category 1

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Symbol(s)	
Signal Word	: Danger
Hazard Statements	 H305: May be harmful if swallowed and enters airways. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statements	 Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash skin thoroughly after handling. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. 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+P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention. P362+P364: Take off contaminated clothing and wash it before reuse. P391: Collect spillage. Storage: P405: Store locked up. Disposal: P501: Dispose of contents/ container to an approved waste disposal plant.
CTION 3: Composition/info	rmation on ingredients
Synonyms	: 1-dodecanethiol NDDM Normal Dodecyl Mercaptan dodecanethiol
Molecular formula	: C12H26S
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Chemical name			CAS-No. / EINECS-No.	Concentration [wt%]
n-Dodecyl Mercaptan			112-55-0	98.5
TION 4: First aid measures				
General advice	:		of dangerous area. Consult a afety data sheet to the doctor	
If inhaled	:		cious, place in recovery positic symptoms persist, call a phys	
In case of skin contact	:	wounds fr	e medical treatment is necess om corrosion of the skin heal If on skin, rinse well with wate othes.	slowly and with
In case of eye contact	:	tissue dan rinse imm advice. C Remove c	ounts splashed into eyes can nage and blindness. In the ca ediately with plenty of water a continue rinsing eyes during tra contact lenses. Protect unharr o while rinsing. If eye irritation	ase of contact with eyes nd seek medical ansport to hospital. med eye. Keep eye
If swallowed	:	an uncons	piratory tract clear. Never give scious person. If symptoms p m immediately to hospital.	
TION 5: Firefighting measu	res			
Flash point	:	133°C (27 Method: c		
Autoignition temperature	:	230°C (44	46°F)	
Suitable extinguishing media	:	Use water carbon dic	r spray, alcohol-resistant foam oxide.	ı, dry chemical or
Unsuitable extinguishing media	:	High volur	me water jet.	
Specific hazards during fire fighting	:	Do not allo courses.	ow run-off from fire fighting to	enter drains or water
Special protective equipment for fire-fighters	:	Wear self- necessary	-contained breathing apparatu /.	is for firefighting if
Further information	:	must not b contamina	ntaminated fire extinguishing be discharged into drains. Fire ated fire extinguishing water m ce with local regulations.	e residues and
Fire and explosion	:	Normal m	easures for preventive fire pro	otection.
protection				

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Hazardous decomposition products	: Carbon oxides. Sulfur oxides.
ECTION 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.
ECTION 7: Handling and stora	ıge
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. To avoid spills during handling keep bottle on a metal tray. 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	: Normal measures for preventive fire protection.
Storage	
Requirements for storage areas and containers	: 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.
ECTION 8: Exposure controls	/personal protection
^{ot applicable} Engineering measures Adequate ventilation to contr	ol airborned concentrations below the exposure guidelines/limits.

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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	:	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. 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.
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. Complete head face and neck protection. Rubber apron. Footwear protecting against chemicals.
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

Physical state Color Odor Odor Threshold	 liquid Colorless Repulsive No data available
Safety data	
Flash point	: 133°C (271°F) Method: closed cup

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Lower explosion limit	: No data available	Nevision Date 2023-02-20
Upper explosion limit	: No data available	
Oxidizing properties	: no	
Autoignition temperature	: 230°C (446°F)	
Molecular formula	: C12H26S	
Molecular weight	: 202.44 g/mol	
pH	: Not applicable	
Melting point/freezing point	: No data available	
Pour point	No data available	
Boiling point/boiling range	: 270°C (518°F)	
Vapor pressure	: 0.00 mbar at 25°C (77°F)	
Relative density	: No data available	
Density	: 0.845 g/cm3 at 20°C (68°F)	
Water solubility	: 0.0054 mg/l Method: OECD Test Guideline 105	
Partition coefficient: n-	: No data available	
octanol/water Viscosity, dynamic	: 2.98 cP at 25°C (77°F)	
Relative vapor density	: 1 (Air = 1.0)	
Evaporation rate	: No data available	
Conductivity	: No data available	
SECTION 10: Stability and react	ivity	
Reactivity	: Stable under recommended storage co	onditions.
Chemical stability	: This material is considered stable under anticipated storage and handling cond and pressure.	
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Possibility of hazardous re	actions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid	: Heat, sparks, fire, and oxidizing agents.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as
Hazardous decomposition products	chlorates, nitrates, peroxides, etc. : Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological info	rmation
Acute oral toxicity n-Dodecyl Mercaptan	1050 > 5000 mg/kg
n-Douecy mercaptan	: LD50: > 5,000 mg/kg Species: Rat Sex: male
Acute inhalation toxicity	
n-Dodecyl Mercaptan	 : > 3.10 mg/l Exposure time: 4.5 h Species: Rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances.
Acute dermal toxicity	
n-Dodecyl Mercaptan	: LD50: > 2,000 mg/kg Species: Rat Sex: male Method: OECD Test Guideline 402
Skin irritation	
n-Dodecyl Mercaptan	: Corrosive after 1 to 4 hours of exposure
	Corrosive after 1 to 4 hours of exposure
Eye irritation n-Dodecyl Mercaptan	: Irreversible effects on the eye
Sensitization	

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n-Dodecyl Mercaptan	: The product is a skin sensitizer, sub-category 1A.
Repeated dose toxicity	
n-Dodecyl Mercaptan	: Species: Rat Application Route: Inhalation Dose: 0, 0.43, 1.6, 7.3 ppm Exposure time: 4 wk NOEL: 0.01 mg/l 1.7 ppm Lowest observable effect level: 0.06 mg/l 7.3 ppm Target Organs: Skin
	Species: Dog Application Route: Inhalation Dose: 0, 0.44, 1.7, 7.7 ppm Exposure time: 4 wk NOEL: 1.7 ppm Lowest observable effect level: 7.7 ppm
Genotoxicity in vitro	
n-Dodecyl Mercaptan	: Test Type: Ames test Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: negative
	Test Type: Mouse lymphoma assay Result: negative
Genotoxicity in vivo	
n-Dodecyl Mercaptan	: Test Type: Mouse micronucleus assay Species: Mouse Dose: 1250, 2500, 5000 mg/kg
n-Dodecyl Mercaptan Aspiration toxicity	: May be harmful if swallowed and enters airways.
CMR effects	
n-Dodecyl Mercaptan	 Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.
n-Dodecyl Mercaptan Further information	: Solvents may degrease the skin.
SECTION 12: Ecological inform	
Toxicity to fish	
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n-Dodecyl Mercaptan	: LC50: > 100 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and ot	ner aquatic invertebrates
n-Dodecyl Mercaptan	: EC50: 1 - 10 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202
Toxicity to algae	
n-Dodecyl Mercaptan	 EC50: 0.0145 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Method: OECD Test Guideline 201
M-Factor dodecane-1-thiol	: M-Factor (Acute Aquat. Tox.) 10
	M-Factor (Chron. Aquat. Tox.) 10
Biodegradability	
n-Dodecyl Mercaptan	 Result: Not readily biodegradable. Method: OECD Test Guideline 301 Information given is based on data obtained from similar substances.
Bioaccumulation	
n-Dodecyl Mercaptan	: Bioconcentration factor (BCF): 228 - 781.2
Mobility	
n-Dodecyl Mercaptan	: After release, adsorbs onto soil.
Additional ecological information	: Very toxic to aquatic life with long lasting effects.
Ecotoxicology Assessmen	t
Short-term (acute) aquatic ha n-Dodecyl Mercaptan	azard : Very toxic to aquatic life.
Long-term (chronic) aquatic n-Dodecyl Mercaptan	
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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.

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)

UN1760, CORROSIVE LIQUIDS, N.O.S., (N-DODECYL MERCAPTAN), 8, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1760, CORROSIVE LIQUID, N.O.S., (N-DODECYL MERCAPTAN), 8, III, (133 °C c.c.), MARINE POLLUTANT, (N-DODECYL MERCAPTAN)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1760, CORROSIVE LIQUID, N.O.S., (N-DODECYL MERCAPTAN), 8, III

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

UN1760, CORROSIVE LIQUID, N.O.S., (N-DODECYL MERCAPTAN), 8, III, (E), ENVIRONMENTALLY HAZARDOUS, (N-DODECYL MERCAPTAN)

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

80,UN1760,CORROSIVE LIQUID, N.O.S., (N-DODECYL MERCAPTAN), 8, III, ENVIRONMENTALLY HAZARDOUS, (N-DODECYL MERCAPTAN)

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

UN1760, CORROSIVE LIQUID, N.O.S., (N-DODECYL MERCAPTAN), 8, III, ENVIRONMENTALLY HAZARDOUS, (N-DODECYL MERCAPTAN)

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Other information : n- Dodecyl Mercaptan, S.T. 1, Cat. X Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

Classification and Labeling of : Primary label: Corrosive Material. Commonly Used Dangerous Chemical Substances				
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Other AICS New Zealand NZIoC Japan ENCS Korea KECI	 This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On TSCA Inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 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 China IECSC Taiwan TCSI	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 			
Other regulations	: Law on Prevention and Control of Environment Pollution by Solid Waste, Provisions on the Safe Use of Chemicals at Workplace			
Other regulations	: Law on the Prevention and Control of Occupational Diseases			

SECTION 16: Other information

Further information

Legacy SDS Number : 460130

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.

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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%	
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level	
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration	
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration	
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit	
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances	
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic	
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act	
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit	
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.	
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value	
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average	
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act	
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials	
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System	
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate	