SAFETY DATA SHEET



Sulfolane, Electronic Grade

Version 3.4

Revision Date 2021-05-26

SECTION 1: Identification of	the su	bstance/mixture and of the company/undertaking	
Product information			
Product Name Material	:	Sulfolane, Electronic Grade 1125135, 1125134, 1125121, 1121914, 1092834, 1072474, 1101562, 1074221, 1102313, 1069532, 1101536, 1024650, 1024652, 1024651, 1105024, 1105023	
Use	:	Solvent	
Company	:	Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380	
Emergency telephone:			
EUROPE: BIG +32.14. Mexico CHEMTREC 0	ational 9300 or 912 91 58454 1-800-6 otec In:) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 5 (phone) or +32.14583516 (telefax) 681-9531 (24 hours) side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600	
Responsible Department E-mail address Website	:	Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com	
ECTION 2: Hazards identific	ation		
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			
SDS Number:100000013627		1/14	

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Symbol(s)			
Signal Word	: Dangei	r	
Hazard Statements	: H360	: May damage fer	tility or the unborn child.
Precautionary Statements	P280 protect Respo P308 + attentic Dispos P501	Obtain special in Do not handle ur ad understood. Wear protective ion/ face protection nse: P313 IF exposion. sal:	structions before use. htil all safety precautions have been gloves/ protective clothing/ eye n. ed or concerned: Get medical advice/ nts/ container to an approved waste
Carcinogenicity:			
IARC NTP	equal to human ca No ingree	0.1% is identified a arcinogen by IARC dient of this produce	ct present at levels greater than or as probable, possible or confirmed C. ct present at levels greater than or as a known or anticipated carcinogen
ECTION 3: Composition/infor	mation on ir	ngredients	
Synonyms	Tetram	-	-dioxide
Molecular formula	: Mixture)	
Component		CAS-No.	Weight %
Sulfolane		126-33-0	97
ECTION 4: First aid measures	5		
General advice		out of dangerous a the doctor in atte	rea. Show this material safety data
If inhaled			ecovery position and seek medical sist, call a physician.

: Flush eyes with water as a precaution. Remove contact In case of eye contact SDS Number:100000013627 2/14

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		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. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
TION 5: Firefighting measu	res	
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.
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.
TION 6: Accidental release	mea	sures
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.
TION 7: Handling and stora	age	
Handling		
Advice on safe handling		Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For
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		drinking sl	hould be prohi ater in accorda	section 8. Smok bited in the appli ance with local a	ting, eatir	ng and ea. Dispose
Advice on protection against fire and explosion	:	Normal m	easures for pr	eventive fire prot	ection.	
Storage						
Requirements for storage areas and containers		Observe la	abel precautio	osed in a dry and ns. Electrical ins vith the technolog	tallations	s / working
Use	:	Solvent				
SECTION 8: Exposure contro	ls/pers	onal prot	ection			
Ingredients with workpla						
Chevron Phillips Chemical Company	y LP					
Components Sulfolane	Basis Manuf	acturer	Value TWA	Control parar 0.37 ppm,	neters	Note
IS			1	[•••• pp,		
Components	Basis		-		notors	Note
Engineering measures Adequate ventilation to con Consider the potential haz activities, and other substa	ntrol air ards of ances ir	borned co this mater the work	rial (see Section place when de	on 2), applicable esigning enginee	re guidel exposure ring cont	ines/limits. limits, job rols and selectir
Engineering measures Adequate ventilation to con Consider the potential haz activities, and other substa personal protective equipm exposure to harmful levels recommended. The user s	ntrol air ards of ances ir nent. If of this should	borned co this mater the work engineerin material, t read and u	ncentrations b rial (see Section place when de ng controls or the personal p understand all	elow the exposu on 2), applicable esigning enginee work practices a rotective equipm instructions and	re guidel exposure ring cont re not ad ent listed limitation	ines/limits. limits, job rols and selectir equate to preve below is s supplied with
Engineering measures Adequate ventilation to con Consider the potential haz activities, and other substa personal protective equipm exposure to harmful levels	ntrol air ards of ances ir nent. If of this should ction is	borned co this mater the work engineerin material, t read and u	ncentrations b rial (see Section place when de ng controls or the personal p understand all	elow the exposu on 2), applicable esigning enginee work practices a rotective equipm instructions and	re guidel exposure ring cont re not ad ent listed limitation	ines/limits. limits, job rols and selectir equate to preve below is s supplied with
Engineering measures Adequate ventilation to con Consider the potential haz activities, and other substa personal protective equipm exposure to harmful levels recommended. The user so the equipment since protect	ntrol air ards of ances ir nent. If should ction is pment :	borned co this mater of the work engineeria material, t read and u usually pro Wear a su ventilation maintain n normal atr respirator material if occur, suc respirator aerosoliza circumstar	incentrations b rial (see Sectic place when de ng controls or the personal p understand all ovided for a lir upplied-air NIC or other engin ninimal oxyger mospheric pre- that provides exposure to h ch as:. Use a if there is pote	elow the exposu on 2), applicable esigning enginee work practices a rotective equipm instructions and	re guidel exposure ring cont re not ad ent listed limitation ler certair % by volu lOSH ap working v airborne r , air-supp olled relea nown, or	ines/limits. e limits, job rols and selectir equate to preve below is s supplied with n circumstances nless uate to ume under proved with this material may olying ase, other
Engineering measures Adequate ventilation to con Consider the potential haz activities, and other substa personal protective equipm exposure to harmful levels recommended. The user so the equipment since protective Personal protective equip	ntrol air ards of ances ir nent. If should ction is pment :	borned co this mater of the work engineeria material, t read and u usually pro Wear a su ventilation maintain n normal atr respirator material if occur, suc respirator aerosoliza circumstar adequate The suitat with the pr the instruct which are considerat product is	incentrations b rial (see Section place when de ng controls or the personal p understand all ovided for a lin upplied-air NIC or other engin ninimal oxygen mospheric pre- that provides exposure to h ch as:. Use a p if there is pote ation, exposure nces where ain protection.	elow the exposu on 2), applicable esigning enginee work practices a rotective equipm instructions and nited time or und SH approved res neering controls a n content of 19.5 ssure. Wear a N protection when armful levels of a positive pressure ential for uncontrol e levels are not k	re guidel exposure ring cont re not ad ent listed limitation ler certain % by volu lOSH ap working v airborne r %, air-supp blled relea nown, or ators may nould be o es. Pleas nd breakt gloves. / s under v uts, abras	ines/limits. e limits, job rols and selectir equate to preve below is s supplied with n circumstances nless uate to ume under proved with this material may olying ase, other / not provide discussed se observe through time Also take into vhich the sion, and the

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	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.
CTION 9: Physical and chem	lical properties
Information on basic phys	ical and chemical properties
Appearance	
Form	: liquid
Physical state	: liquid
Color Odor	: Clear : Mild
	. 19114
Safety data	
Flash point	: 166°C (331°F) Method: Cleveland Open Cup
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	: No data available
Thermal decomposition	: Not applicable
Molecular formula	: Mixture
Molecular weight	: Not applicable
рН	: 7-10
Freezing point	: No data available
Pour point	No data available
Boiling point/boiling range	: 100-288°C (212-550°F)
Vapor pressure	: No data available
Relative density	: 1.26 at 30 °C (86 °F)
Water solubility	: partly miscible, Miscible

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Partition coefficient: n- octanol/water	: log Pow: 0 at 20°C (68°F)
Viscosity, kinematic	: No data available
Relative vapor density	: 4 (Air = 1.0)
Evaporation rate	: <1
Percent volatile	: > 99 %
ECTION 10: Stability and reacting	vity
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 rea	ctions
Hazardous reactions	: 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.
Thermal decomposition	: Not applicable
Hazardous decomposition products	: Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
ECTION 11: Toxicological infor	mation
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
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ulfelene Electroni	SAFETY DATA SHEE
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	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: >2000 mgKg 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 Application Route: Oral Dose: 60, 200, 700 mg/kg bw/day Exposure time: 28 days Number of exposures: Daily NOEL: 200 mg/kg bw/day Lowest observable effect level: 700 mg/kg bw/day

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	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: 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	
Genotoxicity in vitro		
Sulfolane	: Test Type: Ames test Metabolic activation: with and without metab Method: OECD Test Guideline 471 Result: negative	oolic activation
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metab Result: negative	olic activation
	Test Type: Sister Chromatid Exchange Assa Metabolic activation: with and without metab Result: negative	
	Test Type: Chromosome aberration test in v Metabolic activation: with and without metab 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	
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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, Electronic Grade Aspiration toxicity	: No aspiration toxicity classification.
CMR effects	
Sulfolane	 Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures 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, Electronic Grade	
Further information	: No data available.
Further information	
Further information SECTION 12: Ecological information	
Further information SECTION 12: Ecological information	ion : LC50: > 100 mg/l Exposure time: 96 h Species: Oryzias latipes (Orange-red killifish) static test Method: OECD Test Guideline 203
Further information SECTION 12: Ecological information Toxicity to fish Sulfolane	ion : LC50: > 100 mg/l Exposure time: 96 h Species: Oryzias latipes (Orange-red killifish) static test Method: OECD Test Guideline 203
Further information <u>SECTION 12: Ecological information</u> Toxicity to fish Sulfolane Toxicity to daphnia and other	 ion : LC50: > 100 mg/l Exposure time: 96 h Species: Oryzias latipes (Orange-red killifish) static test Method: OECD Test Guideline 203 r aquatic invertebrates : EC50: 852 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Further information SECTION 12: Ecological information Toxicity to fish Sulfolane Sulfolane	 ion : LC50: > 100 mg/l Exposure time: 96 h Species: Oryzias latipes (Orange-red killifish) static test Method: OECD Test Guideline 203 r aquatic invertebrates : EC50: 852 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Further information SECTION 12: Ecological information Toxicity to fish Sulfolane Sulfolane Toxicity to daphnia and other Sulfolane	 ion : LC50: > 100 mg/l Exposure time: 96 h Species: Oryzias latipes (Orange-red killifish) static test Method: OECD Test Guideline 203 r aquatic invertebrates : EC50: 852 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 : EC50: 500 mg/l Exposure time: 72 h

Ifolane, Electronic Gra	SAFETY DATA SHE
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	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	: Bioconcentration factor (BCF): < 1.3 This material is not expected to bioaccumulate.
Mobility	
Sulfolane	: No data available
Results of PBT assessment Sulfolane	: Non-classified vPvB substance, Non-classified PBT substance
Additional ecological information	 This material is not expected to be harmful to aquatic organisms.
Ecotoxicology Assessment	
Short-term (acute) aquatic haza Sulfolane	rd : This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic haz Sulfolane	 ard This material is not expected to be harmful to aquatic organisms.
CTION 13: Disposal considerati	ons
The information in this SDS pert	ains only to the product as shipped.
may meet the criteria of a hazar other State and local regulations regulated components may be r	pose or recycle if possible. This material, if it must be discarded, dous waste as defined by US EPA under RCRA (40 CFR 261) or s. Measurement of certain physical properties and analysis for necessary to make a correct determination. If this material is b, federal law requires disposal at a licensed hazardous waste
Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.
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	Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
ECTION 14: Transport information	ation
	shown here are for bulk shipments only, and may not apply to kages (see regulatory definition).
Goods Regulations for additietc.) Therefore, the information	nestic or international mode-specific and quantity-specific Dangerous ional shipping description requirements (e.g., technical name or names tion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the
	DEPARTMENT OF TRANSPORTATION) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	NAL MARITIME DANGEROUS GOODS) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	R TRANSPORT ASSOCIATION) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	NGEROUS GOODS BY ROAD (EUROPE)) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	CERNING THE INTERNATIONAL TRANSPORT OF
DANGEROUS GOODS (EU NOT REGULATED AS A TRANSPORTATION BY	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
TRANSPORTATION BY	THIS AGENCY. Annex II of MARPOL 73/78 and the IBC Code
ECTION 15: Regulatory inform	nation
National legislation	

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SARA 311/312 Hazards	Reproductive toxicity
EPCRA - EMERGENCY PLAN	NING COMMUNITY RIGHT - TO – KNOW
CERCLA Reportable	This material does not contain any components with a CERCLA RQ.
SARA 302 Reportable	This material does not contain any components with a SARA 302 RQ.
SARA 302 Threshold SARA 302 Threshold	This material does not contain any components with a section 302 EHS TPQ.
SARA 304 Reportable	This material does not contain any components with a section 304 EHS RQ.
SARA 313 Components	 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Clean Air Act	
Potential Class II	duct neither contains, nor was manufactured with a Class I or ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ot. A, App.A + B).
This product does not contain a Act Section 112 (40 CFR 61).	any hazardous air pollutants (HAP), as defined by the U.S. Clean Air
This product does not contain a Accidental Release Prevention	any chemicals listed under the U.S. Clean Air Act Section 112(r) for (40 CFR 68.130, Subpart F).
The following chemical(s) are li Final VOC's (40 CFR 60.489): :	isted under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Sulfolane - 126-33-0
US State Regulations	
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Pennsylvania Right To Know	Sulfolane - 126-33-0				
California Prop. 65 : Components	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.				
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia 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 or in compliance with the active portion of the 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 On the inventory, or in compliance with the inventory 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 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 				
SECTION 16: Other information	SECTION 16: Other information				
NFPA Classification : Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0					
Further information	Further information				
Legacy SDS Number : 368550					
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%	
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 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%			