Synfluid[®] mPAO 65 cSt

Version 2.7

Revision Date 2024-06-18

MSDS number: AA00974-0000000150

	he substance/mixture and of the company/undertaking
Product Name Material	: Synfluid® mPAO 65 cSt : 1116560, 1115084, 1115083
Recommended use of the product Restrictions on use	: Lubricants and lubricant additives : None known.
Address	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Address	 CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD. C/O DONG WOO CORPORATION #B-2601, JEONGJAIL-RO, BUNDANG-GU, SEONGNAMI-SI, GYEONGGI-DO, 13557 SOUTH KOREA Telephone no.: +612-9186-1132
Emergency telephone:	
Asia: CHEMWATCH (+6 Mexico CHEMTREC 01 South America SOS-Co Argentina: +(54)-115983 EUROPE: BIG +32.14.5 Austria: VIZ +43 1 406 4 Belgium: 070 245 245 (2 Bulgaria: +359 2 9154 2	ational) 300 or 703.527.3887(int'l) 612 9186 1132) China: 0532 8388 9090 -800-681-9531 (24 hours) tec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 39431 684545 (phone) or +32.14583516 (telefax) 43 43 (24 hours/day, 7 days/week) 24 hours/day, 7 days/week)
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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: 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 : Product Safety and Toxicology Group Responsible Department E-mail address SDS@CPChem.com Website www.CPChem.com Appointees 회사명: 리이치24시코리아㈜. 주소: 서울특별시 강남구 강남대로 94길 34,4층 전화: +82-02-6245-1610 **SECTION 2: Hazards identification** Hazard classification Number:100000102086 2/14

			Revision	Date 2024-0
Standards for classificatic (ministry of employment	-		and material safety	data sheet
Classification				
Not a hazardous substand	ce or mixture.			
Warning label elements in	ncluding precautional	ry statements		
Not a hazardous substand	ce or mixture.			
Other hazards which do not result in classification	: None	ents		
•				
Synonyms	: Polyalphaolef	in; PAO		
Molecular formula	: Polymer Synonyms	CAS-No.	Concentration	KECI
	Cynonymo		Concontration	Number
1-Octene Homopolymer, Hydrogenated	1-Octene, homopolymer, hydrogenated	70693-43-5	100%	
TION 4: First aid measu	'es			
TION 4: First aid measur General advice		hich require spec	ial first aid measure	s.
	: No hazards w : Flush eyes wi lenses. Prote	th water as a pred ct unharmed eye.	ial first aid measure caution. Remove co Keep eye wide op , consult a specialis	ontact en while
General advice	: No hazards w : Flush eyes wi lenses. Prote rinsing. If eye	th water as a pred act unharmed eye. a irritation persists soap and water.	caution. Remove co Keep eye wide op	ontact en while t.
General advice In case of eye contact	 No hazards w Flush eyes wi lenses. Prote rinsing. If eye Wash off with before re-use If unconscious 	th water as a pred ct unharmed eye. irritation persists soap and water.	caution. Remove co Keep eye wide op , consult a specialis Wash contaminated ry position and seek	ontact en while t. d clothing

		SAFETY DATA SH
nfluid [®] mPAO 65 cSt		Revision Date 2024-06
		Revision Date 2024-00
If swallowed	:	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.
Other cautions for Doctors		
Symptoms	:	No information available.
Risks	:	No information available.
Treatment	:	No information available.
CTION 5: Firefighting measu	res	
Flash point	:	270°C (518°F) Method: ASTM D-92
Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Exposure to decomposition products may be a hazard to health.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire and explosion protection	:	Normal measures for preventive fire protection.
Hazardous decomposition products	:	Carbon oxides.
CTION 6: Accidental release	me	asures
Personal precautions	:	Material can create slippery conditions.
Environmental precautions	:	Clean contaminated floors and objects thoroughly while observing environmental regulations.
Methods for cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.
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Handling		
Advice on safe handling	:	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.
Secure 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.
Uses advised against	:	None known.
Specific Use	:	Lubricants and lubricant additives
TION 8: Exposure control	s/per	sonal protection
Adequate ventilation to con Consider the potential haza	ntrol ai	biological exposure standards, etc. irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job n the work place when designing engineering controls and selecting
Adequate ventilation to con Consider the potential haza activities, and other substan personal protective equipm exposure to harmful levels recommended. The user s the equipment since protec	ntrol ai ards of nces in ent. In of this hould stion is	rborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job n the work place when designing engineering controls and selectir f engineering controls or work practices are not adequate to preve material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances
Adequate ventilation to con Consider the potential haza activities, and other substar personal protective equipm exposure to harmful levels recommended. The user s	ntrol ai ards of nces in ent. In of this hould stion is	rborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job n the work place when designing engineering controls and selectin f engineering controls or work practices are not adequate to preve material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances
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Adequate ventilation to con Consider the potential haza activities, and other substan personal protective equipm exposure to harmful levels recommended. The user s the equipment since protec Personal protective equip	atrol ai ards of nces in ent. I of this hould tion is	rborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job n the work place when designing engineering controls and selectir f engineering controls or work practices are not adequate to preve material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with a usually provided for a limited time or under certain circumstances t 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
Adequate ventilation to con Consider the potential haza activities, and other substan personal protective equipm exposure to harmful levels recommended. The user s the equipment since protect Personal protective equip Respiratory protection	atrol ai ards of nces in ent. I of this hould tion is	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.

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Skin and body protection	: Choose body protection according to the amount and concentration of the substance and the task performed at the work place. Appropriate PPE may include:. Lightweight protective clothing.
Hygiene measures	: General industrial hygiene practice. Prevent vapor buildup by providing adequate ventilation during and after use. Wash hands before breaks and at the end of workday.
ECTION 9: Physical and chemi	cal properties
Information on basic physic	cal and chemical properties
Appearance	
Physical state	: liquid
Color	: clear, light
Odor Odor Threshold	: No data available : No data available
рН	: No data available
Melting point/freezing point	: No data available
Freezing point	-47°C (-53°F)
Boiling point/boiling range	: >250°C (>482°F)
Flash point	: 270°C (518°F) Method: ASTM D-92
Ignition temperature	: 310°C (590°F)
Flammability (solid, gas)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Density	: 0.84 g/cm3
Decomposition temperature	: No data available
Viscosity, kinematic	: 65 cSt at 100°C (212°F)
Molecular weight	: Varies
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CTION 10: Stability and reactivity Reactivity : Stable at normal ambient temperature and pressure. Chemical stability : This material is considered stable under normal ambie anticipated storage and handling conditions of tempera and pressure. Possibility of hazardous reactions Hazardous reactions Hazardous reactions : Further information: No decomposition if stored and ap directed. Conditions to avoid : No data available. Materials to avoid : No data available. Thermal decomposition : Carbon oxides products Other data : No decomposition if stored and applied as directed. CTION 11: Toxicological information Information on exposure routes Synfluid® mPAO 65 cSt Acute oral toxicity Acute inhalation toxicity : LC50: > 5 mg/l Exposure time: 4 h Species: Rat Information given is based on data obtained from simili substances. Synfluid® mPAO 65 cSt Test atmosphere: dust/mist Acute dermal toxicity : LD50: > 2,000 mg/kg Synfluid® mPAO 65 cSt	der normal ambient and ditions of temperature	: actio	Reactivity Chemical stability Possibility of hazardous re	
Chemical stability : This material is considered stable under normal ambie anticipated storage and handling conditions of tempera and pressure. Possibility of hazardous reactions : Further information: No decomposition if stored and ap directed. Conditions to avoid : Materials to avoid : Thermal decomposition : : No data available. Hazardous decomposition : : Carbon oxides products Other data : No decomposition if stored and applied as directed. CTION 11: Toxicological information Information on exposure routes Synfluid@ mPA0 65 cSt Acute oral toxicity : : LC50: > 5 mg/l Exposure time: 4 h Species: Rat : Information given is based on data obtained from simil: substances. Synfluid@ mPA0 65 cSt . Acute inhalation toxicity : LC50: > 5 mg/l	der normal ambient and ditions of temperature	: actio	Chemical stability Possibility of hazardous re	
Chemical stability : This material is considered stable under normal ambie anticipated storage and handling conditions of tempera and pressure. Possibility of hazardous reactions Hazardous reactions Hazardous reactions : Further information: No decomposition if stored and ap directed. Conditions to avoid : No data available. Materials to avoid : No data available. Thermal decomposition : No data available Hazardous decomposition : Carbon oxides products Other data : No decomposition if stored and applied as directed. CTION 11: Toxicological information Information on exposure routes Synfluid® mPA0 65 cSt : LD50: > 5,000 mg/kg Acute oral toxicity : LC50: > 5 mg/l Exposure time: 4 h Species: Rat Information toxicity : LC50: > 5 mg/l Exposure time: 4 h Species: Rat Information given is based on data obtained from similit substances. Synfluid® mPA0 65 cSt : LC50: > 5 mg/l Acute inhalation toxicity : LC50: > 5 mg/l Synfluid® mPA0 65 cSt : Synfluid® mPA0 65 cSt Acute inhalation toxicity : LD50: > 2,000 mg/kg	der normal ambient and ditions of temperature	: actio	Chemical stability Possibility of hazardous re	
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Acute dermal toxicity : LD50: > 2,000 mg/kg	otained from similar			
Information given is based on data obtained from simila	tained from similar			
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	substances.
Synfluid® mPAO 65 cSt Skin corrosion or irritation	: No skin irritation Information given is based on data obtained from similar substances.
Synfluid® mPAO 65 cSt Eye corrosion or irritation	: No eye irritation Information given is based on data obtained from similar substances.
Synfluid® mPAO 65 cSt Skin sensitization	Did not cause sensitization on laboratory animals.
Synfluid® mPAO 65 cSt Germ cell mutagenicity (in vitro)	: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative
Synfluid® mPAO 65 cSt Germ cell mutagenicity (in vivo)	: Remarks: Not classified due to data which are conclusive although insufficient for classification., Information given is based on data obtained from similar substances.
Specific Target Organ Toxicity (Single Exposure)	
	Not classified due to data which are conclusive although insufficient for classification. Not classified due to data which are conclusive although insufficient for classification., Based on data from similar materials
Specific Target Organ Toxicity (Repeated Exposure)	
	Not classified due to data which are conclusive although insufficient for classification., Based on data from similar materials
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Aspiration toxicity Toxicology Assessment	: No aspiration toxicity classification.
Synfluid® mPAO 65 cSt CMR effects	 Carcinogenicity: Not available Mutagenicity: Weight of evidence does not support classification as a germ cell mutagen. Teratogenicity: Not available Reproductive toxicity: No toxicity to reproduction, Based on data from similar materials
Synfluid® mPAO 65 cSt Further information	: No data available.
CTION 12: Ecological informat	ion
Ecological Toxicity	
Toxicity to fish	 This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar substances.
Toxicity to daphnia and other aquatic invertebrates	 This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar substances.
Toxicity to algae	 This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar substances.
Persistence and degradabilityPersistence and degradability	: This material is not expected to be readily biodegradable.
Mobility	: No data available
Other adverse effects	: No data available
Ecotoxicology Assessment	
Short-term (acute) aquatic	: This material is not expected to be harmful to aquatic
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Version 2.7 Revision Date 2024-06-18 hazard organisms. Long-term (chronic) aquatic This material is not expected to be harmful to aquatic hazard 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. Disposal method : 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. : Empty remaining contents. Dispose of as unused product. Disposal precaution 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. **UN Number** not regulated **UN Product Shipping** : Not regulated as a dangerous good Name Hazard Class Packing Group : Not applicable Marine Pollutant : Not applicable **Special Safety Measures** No data available : on Mode of Transport **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)** NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

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IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 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.

Other information

: Not applicable

Maritime transport in bulk according to IMO instruments

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SECTION 15: Regulatory information

National legislation

Regulation under the Occupational Safety and Health Act

A Material Safety Datasheet (MSDS) for this product is not required according to article 41 of the ISHA.

Regulation		Chemical name	Threshold limits
Harmful Substances Prohibited from Manufacturing	••	Not applicable	
Harmful Substances Required Permission for Manufacture	:	Not applicable	

Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

Regulation		Chemical name	Threshold limits
Toxic Chemicals	:	Not applicable	
Prohibited Chemicals	:	Not applicable	
Restricted Chemicals	•••	Not applicable	
Toxic Release Inventory	:	Not applicable	

Dangerous Substances Safety Management Act

Dangerous Substances : Not Applicable to Dangerous Materials Safety Management Act

Regulations by the Waste Management Act	: 1-Octene: Designated Waste
Regulations by other domestic	and foreign laws
Europe REACH	: This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006

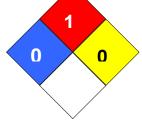
		(REACH).
Switzerland CH INV	:	On the inventory, or in compliance with the inventory
United States of America (USA)	:	On or in compliance with the active portion of the
TSCA		TSCA inventory
Canada DSL	:	All components of this product are on the Canadian
		DSL
Australia AIIC	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Philippines PICCS	:	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.

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China IECSC	: On the inventory, or in compliance with the inventory, or has been registered as new substance
Taiwan TCSI	: Not in compliance with the inventory
Other regulations	: No data available

SECTION 16: Other information

Source of data	:	Korea. GHS based classification
Date of initial writing	:	2019-11-04
Revision number	:	1
Last revision date	:	2023-10-23
NFPA Classification	:	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0



Other information None.

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%	
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
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NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational
Substances List			Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of
			Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect
			Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health
	Scenario Tool		Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substances
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
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
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		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