

Synfluid[®] PAO 9 cSt

Version 1.16

Revision Date 2023-04-13

MSDS number: AA00974-0000000108

Product Name Material	:	Synfluid® PAO 9 cSt 1121045, 1079853, 1079714
Recommended use of the product Restrictions on use	:	Synthetic Lubricants 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: Health: 866.442.9628 (North Am 1.832.813.4984 (Internat		
Transport: CHEMTREC 800.424.93 Asia: CHEMWATCH (+6 Mexico CHEMTREC 01-8 South America SOS-Cote Argentina: +(54)-115983 EUROPE: BIG +32.14.58	00 oi 12 91 800-6 ec In 9431 3454 3 43 4 hou	703.527.3887(int'l) 186 1132) China: 0532 8388 9090 581-9531 (24 hours) side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 5 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week)
nber:100000014080		1/14

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Croatia: +3851 2348 342 (24 hours/day, 7 days/week) **Cvprus: 1401** Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax) 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 Appointees : 회사명: 리이치 24 시코리아㈜. 주소: 서울시 서초구 헌릉로 7, 외국기업창업지원연구센터 (IKP) 908-909호 전화: +82-1067838981 **SECTION 2: Hazards identification Hazard classification** Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2020-130)

Classification

Number:100000014080

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Not a hazardous substance or mixture.		
Warning label elements including precautionary statements		
Not a hazardous substance	e or m	nixture.
Other hazards which do not result in classification	:	None
SECTION 3: Composition/info	ormati	ion on ingredients
Synonyms	:	PAO Polyalphaolefin
Molecular formula	:	UVCB
SECTION 4: First aid measure	es	
General advice	:	No hazards which require special first aid measures.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Other cautions for Doctor	S	
Symptoms	:	No information available.
Risks	:	No information available.
Treatment	:	No information available.
SECTION 5: Firefighting meas	sures	
Flash point	:	246-271°C (475-520°F) Method: Cleveland Open Cup
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Autoignition temperature	:	351°C (664°F)
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.
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	:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.
Environmental precautions	:	No special environmental precautions required.
Methods for cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.
	: age	
	: age	
CTION 7: Handling and stora	: age :	
CTION 7: Handling and stora Handling	: age :	suitable, closed containers for disposal. For personal protection see section 8. Smoking, eating and
CTION 7: Handling and stora Handling Advice on safe handling Advice on protection	: age :	Suitable, closed containers for disposal.
CTION 7: Handling and stora Handling Advice on safe handling Advice on protection against fire and explosion	: age : :	Suitable, closed containers for disposal.

Synfluid® PAO 9 cst Version 1.16 Revision Date 2023-04-13 Advice on common storage : No materials to be especially mentioned. Specific Use : Synthetic Lubricants SECTION 8: Exposure controls/personal protection Chemical exposure standards, biological exposure standards, etc. Adequate ventilation to control alroomed 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 hamful levies 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. Hand protection : Eye wash bottle with pure water. Tightly fitting safety goggles. Hand protection : The suitability for a specific workplace should be discussed with the producers of the gloves. Also a bake into consideration the specific local conditions under which the product is used, such as the danger of cus, abrasin, and the contact time. Gloves s			SAFETY DATA SHEET
Advice on common storage : No materials to be especially mentioned. Specific Use : Synthetic Lubricants SECTION 8: Exposure controls/personal protection Chemical exposure standards, biological exposure standards, etc. Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls and adequate to prevent exposure to harmful levels of this material (see Section 2), applicable exposure with the equipment since protection is usually provided for a limited time or under certain circumstances. Personal protective equipment 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. Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles. 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. Skin and body protection : Chose body protection according to the amount and concentration of the substance and the tack performed at the work place. Appropriate PPE may include:. Lightweight protective clothing. Hygiene measures : General industrial hygiene practice. Skin and body protection :<	Synfluid [®] PAO 9 cSt		
Specific Use : Synthetic Lubricants SECTION 8: Exposure controls/personal protection Chemical exposure standards, biological exposure standards, etc. Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Personal protective equipment Respiratory protection : 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. Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles. Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective glowes. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the context time. Glowes should be discussed with the substance and the task performed at the work place. Appropriate PPE may include:. Lightweight protective citing. Kin and body protection : Choose body protection accordin	Version 1.16		Revision Date 2023-04-13
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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 listicors 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. Eye 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. Eye 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. Eye protection If ye wash bottle with pure water. Tightly fitting safety goggles. Hand protection The suitability for a specific workplace should be discussed with the producers of the protective glowes. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the glowes. Also take into consideration of degradation or chemical breakthrough. Skin and body protection : Choose body protection according to the amount and conc	Chemical exposure standard	ds,	, biological exposure standards, etc.
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Information on basic physical and chemical properties Appearance Physical state : liquid Color : Colorless Odor : Odorless Odor Threshold : No data available pH : Not applicable Pour point : <-40°C (<-40°F)	Hygiene measures	:	General industrial hygiene practice.
Appearance Physical state : liquid Color : Colorless Odor : Odorless Odor Threshold : No data available pH : Not applicable Pour point : <-40°C (<-40°F)	SECTION 9: Physical and chemic	cal	properties
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Pour point : <-40°C (<-40°F)	Color Odor		Colorless Odorless
	рН	-	Not applicable
Number:100000014080 5/14	Pour point		<-40°C (<-40°F)
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Melting point/freezing point	No data available
Boiling point/boiling range	: >260°C (>500°F)
Flash point	: 246-271°C (475-520°F) Method: Cleveland Open Cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
	No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapor pressure	: No data available
Solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Density	: 6.87 - 6.96 L/G
Vapor density	: No data available
Autoignition temperature	
Decomposition temperature	: No data available
Viscosity, kinematic	No data available : 53 cSt at 40°C (104°F) Method: ASTM D 445
Molecular weight	: Not applicable
SECTION 10: Stability and reacti	vity
Reactivity	: Stable at normal ambient temperature and pressure.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous rea	ctions
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Hazardous reactions	: Further information: Stable under recommended storage conditions., No hazards to be specially mentioned.	
Conditions to avoid	: No data available.	
Materials to avoid	: No data available.	
Thermal decomposition	: No data available	
	No data available	
Hazardous decomposition products	: Carbon oxides	
Other data	: No decomposition if stored and applied as directed.	
CTION 11: Toxicological infor	mation	
Information on exposure ro		
-	ules	
Synfluid® PAO 9 cSt Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat Information given is based on data obtained from similar substances.	
Synfluid® PAO 9 cSt Acute inhalation toxicity	: LC50: > 5 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist Information given is based on data obtained from similar substances.	
Synfluid® PAO 9 cSt Acute dermal toxicity	 LD50: > 2,000 mg/kg Species: Rat Information given is based on data obtained from similar substances. 	
Synfluid® PAO 9 cSt Skin corrosion or irritation	: No skin irritation Information given is based on data obtained from similar substances.	
Synfluid® PAO 9 cSt Eye corrosion or irritation	: No eye irritation Information given is based on data obtained from similar substances.	
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Synfluid® PAO 9 cSt Respiratory Sensitization	: No data available
Synfluid® PAO 9 cSt Skin sensitization	Did not cause sensitization on laboratory animals.
Synfluid® PAO 9 cSt Repeated dose toxicity	 Species: Rat, Male and female Sex: Male and female Application Route: oral gavage Dose: 0, 1000 mg/kg/day Exposure time: 28 days NOEL: 1,000 mg/kg Method: OECD Test Guideline 407 Information given is based on data obtained from similar substances.
Synfluid® PAO 9 cSt Germ cell mutagenicity (in vitro)	 Test Type: Ames test Result: negative Remarks: Information refers to the main ingredient. Test Type: Chromosome aberration test in vitro
	Result: negative Remarks: Information refers to the main ingredient.
Synfluid® PAO 9 cSt Germ cell mutagenicity (in vivo)	: Test Type: Mouse micronucleus assay Result: negative Remarks: Information refers to the main ingredient.
Synfluid® PAO 9 cSt	
Developmental Toxicity	: Animal testing did not show any effects on fetal development. 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.

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Specific Target Organ Toxicity (Repeated 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.
Synfluid® PAO 9 cSt Aspiration toxicity Toxicology Assessment	: No aspiration toxicity classification.
Synfluid® PAO 9 cSt CMR effects	 Carcinogenicity: Contains no ingredient listed as a carcinogen Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction
Synfluid® PAO 9 cSt Reproductive toxicity	: Animal testing did not show any effects on fertility. Information given is based on data obtained from similar substances.
Synfluid® PAO 9 cSt Further information	: No data available.
ECTION 12: Ecological information	tion
Ecological Toxicity	
Toxicity to fish	: Not a hazardous substance or mixture. Estimated based on individual component values.
Toxicity to daphnia and other aquatic invertebrates	: Not a hazardous substance or mixture. Estimated based on individual component values.
Toxicity to algae	: Not a hazardous substance or mixture. Estimated based on individual component values.
Persistence and degradabilityPersistence	: Result: Expected to be inherently biodegradable.
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and degradability		
Bioaccumulative	: This material is not expected to bioaccumulate.	
Mobility	: No data available	
Other adverse effects	: No data available	
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.	
Long-term (chronic) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.	
SECTION 13: Disposal considera	ions	
The information in this SDS of	rtains 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 precaution : Empty containers should be taken to an approved waste		
handling site for recycling or disposal.		
ECTION 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 Name	Not regulated as a dangerous good	
Hazard Class		
Packing Group	Not applicable	
Marine Pollutant	Not applicable	
Special Safety Measures on Mode of Transport	No data available	
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US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 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.

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Other information

: Not applicable

Maritime transport in bulk according to IMO instruments

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	
		Not applicable	
Harmful Substances Required Permission for Manufacture		Not applicable	
		Not applicable	

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

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

Dangerous Substances Safety Management Act

Dangerous Substances	: Flammable liquids, Type 4 petroleums
Safety Management Act	

Regulations by the Waste : Not applicable Management Act

Regulations by other domestic and foreign laws				
•	nis product is in full compliance according to REACH gulation 1907/2006/EC.			
TSCA TS	n or in compliance with the active portion of the SCA inventory I components of this product are on the Canadian			

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SAFETY DATA SHEET

Other AICS New Zealand NZIoC Japan ENCS Korea KECI		 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 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
Other regulations		: No data available
SECTION 16: Other informatio	n	
Source of data	:	
Date of initial writing	:	2021-02-01
Revision number	:	1
Last revision date	:	2023-04-13

Other information NSF H1, HX-1 Registered, meets USDA 1998 H1 Guidelines

Nor TT, TX-T Registered, meets CODA 1990 TT Guidelines

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Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0

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

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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.

ŀ	Key or legend to abbreviations and a	cronyms use	d 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			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

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