SAFETY DATA SHEET



Synfluid® PAO 4 cSt

Version 2.1

Revision Date 2022-09-07

Product Name : Synfluid® PAO 4 cSt Material : 1126174, 1111739, 1111738, 1111733, 1079673, 1079928, 1079872, 1079835, 1079712, 1079702 Jse : Synthetic Lubricants	TION 1: Identification	TION 1: Identification of the substance/mixture and of the company/undertaking			
Product Name : Synfluid® PAO 4 cSt Material : 1126174, 1111738, 1111738, 1111733, 1079673, 1079928, 1079872, 1079835, 1079712, 1079702 Jse : Synthetic Lubricants Company : Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380 Emergency telephone: Health: 866,442,9628 (North America) 1,832,813,4984 (International) Transport: CHEMTREC 800.424,9300 or 703.527,3887(int') Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: V1Z +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: -359 2 9154 233 Croatia: +3851 2248 342 (24 hours/day, 7 days/week) Bulgaria: 1596 Center (ciftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: V1Z +43 1 406 43 43 (24 hours/day, 7 days/week) Bulgaria: -1595 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: 1595 Center (ciftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 471 11 09 471 977 7(24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 471 11 07 471 9777 (24 hours/day) Firance: ORFILA number (INRS): + 33 (0) 1 45 24 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 471 110 92 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 222 (24 hours/day, 7 days/week) Iceland: 543					
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	Number:10000001095	0	1/12		

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Lithuania: +370 (85) 2362 Luxembourg: (+352) 800 Malta: +356 2395 2000 The Netherlands: NVIC: - Norway: 22 59 13 00 (24 Poland: BIG +32.14.5845 Portugal: CIAV phone nu Romania: +40213183606 Slovakia: +421 2 5477 42 Slovenia: Phone number	2 5500 (24 hours/day, 7 days/week) +31 (0)88 755 8000 hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax) imber: +351 800 250 250 5 166 :: 112 ncy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
CTION 2: Hazards identification	tion
	tance or mixture sified in accordance with the hazard communication standard 29 CFR bels contain all the information as required by the standard. : Aspiration hazard, Category 1
Labeling Symbol(s)	:
Signal Word	: Danger
Hazard Statements	: H304: May be fatal if swallowed and enters airways.
Precautionary Statements	 Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
Precautionary Statements	 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste
Carcinogenicity: IARC	 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant. No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Carcinogenicity:	 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant. No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Synonyms : Polyalphaolefin PAO					
Molecular formula : UVCB					
Component			CAS-No.	Weight %	
1-Decene, tetramer, mixed w		-	68649-12-7	80 - 90	
decene trimer, hydrogenated 1-Decene, homopolymer, hydrogenated 68037-01-4 10 - 20					
T-Decene, homopolymer, hydrogenaled 66037-01-4 10 - 20					
TION 4: First aid measures					
General advice	:	sheet to	o the doctor in atte	rea. Show this materia ndance. Material may neumonia if swallowed	produce a
If inhaled	:			ecovery position and se ist, call a physician.	eek medical
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.			
If swallowed	:	: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.			
TION 5: Firefighting measu	res				
Flash point	:		(426°F) I: Cleveland Open	Cup	
Autoignition temperature : 343°C (649°F)					
Insuitable extinguishing : High volume water jet. nedia					
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	:	measur		nemical fires. Use exti priate to local circumsta	

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Fire and explosion protection	:	Normal measures for preventive fire protection.
CTION 6: Accidental release	me	asures
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.
CTION 7: Handling and stora	age	
Handling		
Advice on safe handling	:	Do not breathe vapors/dust. 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.
Storage		
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Use	:	Synthetic Lubricants
CTION 8: Exposure controls	/per	sonal protection
Engineering measures		
Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels o recommended. The user sh	ds c ces nt. f this oulc	irborned concentrations below the exposure guidelines/limits. of this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selectin If engineering controls or work practices are not adequate to preven s material, the personal protective equipment listed below is I read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances
Personal protective equipr	nen	t
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

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	provides protection may be appropriate, such as:. Air-Purifying Respirator for Dusts and Mists / P100. 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. Tightly fitting safety goggles.
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:. 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.
Information on basic phys	sical and chemical properties
Appearance	
	sical and chemical properties : liquid : liquid : Clear, colorless : Odorless
Appearance Form Physical state Color	: liquid : liquid : Clear, colorless
Appearance Form Physical state Color Odor	: liquid : liquid : Clear, colorless
Appearance Form Physical state Color Odor Safety data	 liquid liquid Clear, colorless Odorless 219°C (426°F)
Appearance Form Physical state Color Odor Safety data Flash point	 liquid liquid Clear, colorless Odorless 219°C (426°F) Method: Cleveland Open Cup
Appearance Form Physical state Color Odor Safety data Flash point Autoignition temperature	 liquid liquid Clear, colorless Odorless 219°C (426°F) Method: Cleveland Open Cup 343°C (649°F)
Appearance Form Physical state Color Odor Safety data Flash point Autoignition temperature Molecular formula	 liquid liquid Clear, colorless Odorless 219°C (426°F) Method: Cleveland Open Cup 343°C (649°F) UVCB
Appearance Form Physical state Color Odor Safety data Flash point Autoignition temperature Molecular formula Boiling point/boiling range	 liquid liquid Clear, colorless Odorless 219°C (426°F) Method: Cleveland Open Cup 343°C (649°F) UVCB 414°C (777°F) 1.70 MMHG
Appearance Form Physical state Color Odor Safety data Flash point Autoignition temperature Molecular formula Boiling point/boiling range Vapor pressure	 ! liquid ! clear, colorless ! Odorless ! Odorless ! 219°C (426°F) Method: Cleveland Open Cup ! 343°C (649°F) ! UVCB ! 414°C (777°F) ! 1.70 MMHG at 177°C (351°F) ! 0.82
Appearance Form Physical state Color Odor Safety data Flash point Autoignition temperature Molecular formula Boiling point/boiling range Vapor pressure Relative density	 iliquid iliquid Clear, colorless Odorless Odorless 219°C (426°F) Method: Cleveland Open Cup 343°C (649°F) UVCB 414°C (777°F) 1.70 MMHG at 177°C (351°F) 0.82 at 15.6 °C (60.1 °F) 16 cSt

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CTION 10: Stability and react	tivity
Reactivity	: Stable at normal ambient temperature and pressure.
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Chemical stability	: This material is considered stable under normal ambient and
	anticipated storage and handling conditions of temperature
	and pressure.
Possibility of hazardous rea	actions
Hazardous reactions	: Further information: No decomposition if stored and applied as
	directed.
Conditions to avoid	: No data available.
Materials to avoid	: No data available.
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological info	rmation
Synfluid® PAO 4 cSt	
Acute oral toxicity	: LD50: > 5,000 mg/kg
	Species: Rat
Synfluid® PAO 4 cSt	
Acute inhalation toxicity	: LC50: > 5.2 mg/l Exposure time: 4 h
	Species: Rat
	Sex: male and female
	Test atmosphere: dust/mist
Synfluid® PAO 4 cSt	
	1050. > 2000 mg/kg
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rat
Acute definal toxicity	: LD50: > 2,000 mg/kg Species: Rat
Synfluid® PAO 4 cSt Skin irritation	
Synfluid® PAO 4 cSt	Species: Rat
Synfluid® PAO 4 cSt	Species: Rat
Synfluid® PAO 4 cSt Skin irritation	Species: Rat
Synfluid® PAO 4 cSt Skin irritation Synfluid® PAO 4 cSt	Species: Rat : No skin irritation
Synfluid® PAO 4 cSt Skin irritation Synfluid® PAO 4 cSt	Species: Rat : No skin irritation
Synfluid® PAO 4 cSt Skin irritation Synfluid® PAO 4 cSt Eye irritation	Species: Rat : No skin irritation
Synfluid® PAO 4 cSt Skin irritation Synfluid® PAO 4 cSt Eye irritation Sensitization	Species: Rat No skin irritation No eye irritation
Synfluid® PAO 4 cSt Skin irritation Synfluid® PAO 4 cSt Eye irritation Sensitization 1-Decene, homopolymer,	 Species: Rat No skin irritation No eye irritation Classification: Did not cause sensitization on laboratory

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Synfluid® PAO 4 cSt Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
1-Decene, homopolymer, hydrogenated	 Carcinogenicity: Not classifiable as a human 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
CTION 12: Ecological informat	ion
Ecotoxicity effects	
Toxicity to fish	: LC50: > 1,000 mg/l Exposure time: 96 h Species: Salmo gairdneri (Rainbow trout)
	LC50: > 750 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates	: EC50: 190 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	
1-Decene, homopolymer, hydrogenated	: NOELR: 1,000 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Method: OECD Test Guideline 201
Biodegradability	: Expected to be inherently biodegradable.
Elimination information (persist	ence and degradability)
Bioaccumulation	: This material is not expected to bioaccumulate.
Mobility	: No data available
Results of PBT assessment 1-Decene, homopolymer, hydrogenated	: Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information	: No data available
S Number:100000010950	7/12

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Ecotoxicology Assessment	t
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.
TION 13: Disposal consider	ations
The information in this SDS p	pertains only to the product as shipped.
may meet the criteria of a had other State and local regulated regulated components may b	purpose or recycle if possible. This material, if it must be discarded, zardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is ste, 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. Send to a licensed waste management company.
Contaminated packaging	
Containinated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
CTION 14: Transport informa	Do not re-use empty containers.
TION 14: Transport informa	Do not re-use empty containers.
TION 14: Transport informa The shipping descriptions a shipments in non-bulk pack Consult the appropriate dome Goods Regulations for additio etc.) Therefore, the informati	Do not re-use empty containers. tion shown here are for bulk shipments only, and may not apply to kages (see regulatory definition). estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or name ion shown here, may not always agree with the bill of lading shipping
TION 14: Transport informa The shipping descriptions a shipments in non-bulk pack Consult the appropriate dome Goods Regulations for additio etc.) Therefore, the informati description for the material. If bill of lading.	Do not re-use empty containers. tion shown here are for bulk shipments only, and may not apply to kages (see regulatory definition). estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or name ion 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
 TION 14: Transport informa The shipping descriptions a shipments in non-bulk pack Consult the appropriate dome Goods Regulations for additionet.) Therefore, the informati description for the material. If bill of lading. US DOT (UNITED STATES IN NOT REGULATED AS A TRANSPORTATION BY TR	Do not re-use empty containers. Ition shown here are for bulk shipments only, and may not apply to kages (see regulatory definition). estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or name ion 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. AL MARITIME DANGEROUS GOODS) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
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Synfluid[®] PAO 4 cSt Version 2.1 Revision Date 2022-09-07 **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 : Polyolefin (molecular weight 300+), S.T. 2, Cat.Y Maritime transport in bulk according to IMO instruments **SECTION 15: Regulatory information National legislation** SARA 311/312 Hazards : Aspiration hazard **EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW** CERCLA Reportable : This material does not contain any components with a CERCLA Quantity RQ. SARA 302 Reportable : This material does not contain any components with a SARA 302 RQ. Quantity SARA 302 Threshold : This material does not contain any components with a section Planning Quantity 302 EHS TPQ. SARA 304 Reportable : This material does not contain any components with a section Quantity 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** SDS Number:100000010950 9/12

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sion 2.1	Revision Date 2022-09
Ozone-Depletion : This prod Potential Class II C	uct neither contains, nor was manufactured with a Class I or DDS as defined by the U.S. Clean Air Act Section 602 (40 CFR a. A, App.A + B).
This product does not contain ar Act Section 112 (40 CFR 61).	ny hazardous air pollutants (HAP), as defined by the U.S. Clean A
This product does not contain ar Accidental Release Prevention (ny chemicals listed under the U.S. Clean Air Act Section 112(r) for 40 CFR 68.130, Subpart F).
This product does not contain an Intermediate or Final VOC's (40	ny chemicals listed under the U.S. Clean Air Act Section 111 SOC CFR 60.489).
US State Regulations	
Pennsylvania Right To Know :	No components are subject to the Pennsylvania Right to Know Act.
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 Philippines PICCS	 On the inventory, or in compliance with the inventory 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 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. On the inventory, or in compliance with the inventory
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

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SECTION 16: Other information NFPA Classification : Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard: 0 Further information Legacy SDS Number : 3332 NSF H1, HX-1 Registered, meets USDA 1998 H1 Guidelines 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.

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupatio 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 Concentra
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 Substan
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov 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

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ENCS	Japan, Inventory of Existing and New Chemical Substances	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%		

SDS Number:100000010950