

Synfluid[®] PAO 8 cSt

Version 1.22

Revision Date 2025-04-02

MSDS number: AA00974-0000000107

	of the substance/mixture and of the company/undertaking
Product Name Material	: Synfluid® PAO 8 cSt : 1111743, 1111742, 1111735, 1079836, 1079942, 1079666
Recommended use of th product Restrictions on use	ne : Synthetic Lubricants : None known.
Restrictions on use	. 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 Mexico CHEMTREC South America SOS- Argentina: +(54)-1159 EUROPE: BIG +32.14 Austria: VIZ +43 1 40 Belgium: 070 245 245 Bulgaria: +359 2 9154	rnational) 4.9300 or 703.527.3887(int'l) (+612 9186 1132) China: 0532 8388 9090 01-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 9839431 4.584545 (phone) or +32.14583516 (telefax) 06 43 43 (24 hours/day, 7 days/week) 5 (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:10000062776 2/15

Standards for classification (ministry of employment	-			ty data she
Classification				
Not applicable				
Warning label elements ir	ncluding precautiona	ary statements		
Symbol(s) Signal Word	: : Not applica	ble		
Hazard Statements	: Not applica	ble		
Precautionary Statements	s : Not applica	ble		
Other hazards which do	: None			
Other hazards which do not result in classification	: None			
not result in classification				
		ients		
not result in classification				
not result in classification TION 3: Composition/inf Synonyms Molecular formula	ormation on ingred : Polyalphaole PAO : Polymer	fin		
not result in classification	ormation on ingred : Polyalphaole PAO	fin CAS-No.	Concentration	KECI Number
not result in classification TION 3: Composition/inf Synonyms <u>Molecular formula</u> Common name 1-Decene Homopolymer	ormation on ingred : Polyalphaole PAO : Polymer Synonyms Dec-1-ene,	fin	Concentration 100%	
not result in classification TION 3: Composition/inf Synonyms <u>Molecular formula</u> Common name	ormation on ingred : Polyalphaole PAO : Polymer Synonyms Dec-1-ene, oligomers,	fin CAS-No.		Number
not result in classification TION 3: Composition/inf Synonyms <u>Molecular formula</u> Common name 1-Decene Homopolymer	ormation on ingred : Polyalphaole PAO : Polymer Synonyms Dec-1-ene,	fin CAS-No.		Number
not result in classification TION 3: Composition/inf Synonyms <u>Molecular formula</u> Common name 1-Decene Homopolymer Hydrogenated	Formation on ingred : Polyalphaole PAO : Polymer Synonyms Dec-1-ene, oligomers, hydrogenated	fin CAS-No.		Number
not result in classification TION 3: Composition/inf Synonyms <u>Molecular formula</u> Common name 1-Decene Homopolymer	Formation on ingred : Polyalphaole PAO : Polymer Synonyms Dec-1-ene, oligomers, hydrogenated	fin CAS-No.		Number
not result in classification TION 3: Composition/inf Synonyms <u>Molecular formula</u> Common name 1-Decene Homopolymer Hydrogenated	Formation on ingred : Polyalphaole PAO : Polymer Synonyms Dec-1-ene, oligomers, hydrogenated	fin CAS-No. 68037-01-4		Number KE-09505
not result in classification TION 3: Composition/inf Synonyms Molecular formula Common name 1-Decene Homopolymer Hydrogenated TION 4: First aid measur	formation on ingred : Polyalphaole PAO : Polymer Synonyms Dec-1-ene, oligomers, hydrogenated	fin CAS-No. 68037-01-4 which require spec	ial first aid measure	Number KE-09505 s.

		SAFETY DATA SHEE
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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 Doctors		
Symptoms	:	No information available.
Risks	:	No information available.
Treatment	:	No information available.
SECTION 5: Firefighting measu	res	
Flash point	:	252-265°C (486-509°F) Method: ASTM D-92
Autoignition temperature	:	369°C (696°F)
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during fire fighting	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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.
SECTION 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.
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	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.
TION 7: Handling and stora	ige	
Handling		
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Secure storage		
Requirements for storage areas and containers Uses advised against	:	Electrical installations / working materials must comply with the technological safety standards. None known.
Advice on common storage	:	No materials to be especially mentioned.
Specific Use	:	Synthetic Lubricants
-	rds	, biological exposure standards, etc.
Chemical exposure standa Adequate ventilation to contr Consider the potential hazard	r ds ol a ds o	, biological exposure standards, etc. irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job
Chemical exposure standa Adequate ventilation to contr Consider the potential hazard activities, and other substand personal protective equipme exposure to harmful levels of recommended. The user sho	rol a ds o ces i nt. f this ould	, biological exposure standards, etc. irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and select If engineering controls or work practices are not adequate to prev s material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with
Chemical exposure standa Adequate ventilation to contr Consider the potential hazard activities, and other substand personal protective equipme exposure to harmful levels of recommended. The user sho	rol a ds o ces nt. f this ould on is	biological exposure standards, etc. irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and select of engineering controls or work practices are not adequate to prev as material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with as usually provided for a limited time or under certain circumstance
Chemical exposure standa Adequate ventilation to contr Consider the potential hazard activities, and other substand personal protective equipment exposure to harmful levels of recommended. The user sho the equipment since protection	rol a ds o ces nt. f this ould on is	biological exposure standards, etc. irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and select of engineering controls or work practices are not adequate to prev as material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with as usually provided for a limited time or under certain circumstance
Chemical exposure standa Adequate ventilation to contr Consider the potential hazard activities, and other substand personal protective equipment exposure to harmful levels of recommended. The user sho the equipment since protection Personal protective equipment	rol a ds o ces i nt. f this ould on is	 biological exposure standards, etc. irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and select of engineering controls or work practices are not adequate to previse material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with susually provided for a limited time or under certain circumstance 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
Chemical exposure standa Adequate ventilation to contr Consider the potential hazard activities, and other substand personal protective equipme exposure to harmful levels of recommended. The user she the equipment since protection Personal protective equipment Respiratory protection	rol a ds o ces i nt. f this ould on is	 biological exposure standards, etc. irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and select of engineering controls or work practices are not adequate to previse material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with susually provided for a limited time or under certain circumstance 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 respirator may be appropriate.

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		is any indication of degradation or chemical breakthrough.
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.
ECTION 9: Physical and chem	ical	properties
Information on basic phys	ical	and chemical properties
Appearance		
Physical state	:	liquid
Color Odor		Clear, Colorless Odorless
Odor Threshold	:	No data available
рН	:	Not applicable
Pour point	:	No data available
Melting point/freezing point		Not applicable
Boiling point/boiling range	:	430°C (806°F)
Flash point	:	252-265°C (486-509°F) Method: ASTM D-92
Evaporation rate	:	3 Method: ASTM D5800
Flammability (solid, gas)	:	No data available
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Vapor pressure	:	0.10 MMHG at 232°C (450°F)
Solubility	:	Soluble in hydrocarbon solvents; insoluble in water.
Relative density	:	0.83 at 15.6 °C (60.1 °F)
Vapor density	:	10 (Air = 1.0)
Partition coefficient: n-	:	No data available

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octanol/water Autoignition temperature	: 369°C (696°F)
Decomposition temperature	: No data available
Viscosity, kinematic	: 46 cSt at 40°C (104°F)
Molecular weight	: Varies
SECTION 10: Stability and reactiv	vity
Reactivity	: Stable at normal ambient temperature and pressure.
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	: 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
Hazardous decomposition products	: Carbon oxides
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological inform	mation
Information on exposure rou	
Synfluid® PAO 8 cSt Acute oral toxicity	: LD50 Oral: > 5,000 mg/kg Species: Rat
Synfluid® PAO 8 cSt Acute inhalation toxicity	: LC50: > 5.2 mg/l Exposure time: 4 h Species: Rat
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	Test atmosphere: dust/mist
Synfluid® PAO 8 cSt Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rabbit
Synfluid® PAO 8 cSt Skin corrosion or irritation	: No skin irritation
Synfluid® PAO 8 cSt Eye corrosion or irritation	: No eye irritation
Synfluid® PAO 8 cSt Respiratory Sensitization	: Did not cause sensitization on laboratory animals.
Synfluid® PAO 8 cSt Skin sensitization	Did not cause sensitization on laboratory animals.
Synfluid® PAO 8 cSt Carcinogenicity	: Remarks: This information is not available.
Repeated dose toxicity	
1-Decene Homopolymer Hydrogenated	: Species: Rat Application Route: Oral Dose: 0, 8000, 20000, 50000 ppm Exposure time: 28 day Number of exposures: daily NOEL: 6,245 mg/kg Method: OECD Test Guideline 407
	Species: Rat Application Route: oral gavage Dose: 0, 1000, 7000, 50000 ppm Exposure time: 13 weeks Number of exposures: daily NOEL: 4,159.4 mg/kg Method: OCED Guideline 408
Synfluid® PAO 8 cSt Germ cell mutagenicity (in vitro)	: Remarks: No adverse effects expected, Information given is based on data obtained from similar substances.
Synfluid® PAO 8 cSt Germ cell mutagenicity (in vivo)	: Remarks: No adverse effects expected, Information given is based on data obtained from similar substances.
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1-Decene Homopolymer Hydrogenated	: 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.
Specific Target Organ Toxicity (Repeated Exposure)	
	Not classified due to data which are conclusive although insufficient for classification.
Aspiration toxicity	
1-Decene Homopolymer Hydrogenated Toxicology Assessment	: No aspiration toxicity classification.
Synfluid® PAO 8 cSt CMR effects	 Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: no developmental effects Reproductive toxicity: No toxicity to reproduction
Reproductive toxicity	
1-Decene Homopolymer Hydrogenated	: Species: Rat Sex: male and female Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg Number of exposures: daily Test period: 10 weeks Method: OECD Test Guideline 415 NOAEL Parent: 1,000 mg/kg
Synfluid® PAO 8 cSt Further information	: No data available.
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Ecological Toxicity	
Toxicity to fish	 LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates	 EL50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202
Toxicity to algae	 NOELR: 1,000 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Method: OECD Test Guideline 201
Persistence and degradabilityPersistence and degradability	: This material is not expected to be readily biodegradable., Expected to be inherently biodegradable.
Bioaccumulative	: This material is not expected to bioaccumulate.
Mobility	: No data available
Results of PBT assessment 1-Decene Homopolymer Hydrogenated Other adverse effects	 Non-classified PBT substance, Non-classified vPvB substance 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.
TION 13: Disposal considera	tions
•	ertains only to the product as shipped.
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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.

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 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

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.

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

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NOT REGULATED AS A HAZA TRANSPORTATION BY THIS		OOUS MATERIAL OR DANGEROUS GOO ENCY.	ODS FOR
RID (REGULATIONS CONCERNI GOODS (EUROPE))	ING	THE INTERNATIONAL TRANSPORT C	OF DANGEROUS
NOT REGULATED AS A HAZA BY THIS AGENCY.	٩RE	OOUS MATERIAL OR DANGEROUS GOO	ODS FOR TRANSPORTAT
ADN (EUROPEAN AGREEMENT DANGEROUS GOODS BY INLAN		ONCERNING THE INTERNATIONAL CA WATERWAYS)	RRIAGE OF
NOT REGULATED AS A HAZA BY THIS AGENCY.	٩RE	OOUS MATERIAL OR DANGEROUS GO	ODS FOR TRANSPORTAT
Other information	: 1	Not applicable	
Other information Maritime transport in bulk acco			
Maritime transport in bulk acco	ord	ing to IMO instruments	
	ord	ing to IMO instruments	
Maritime transport in bulk acco	ord	ing to IMO instruments	
Maritime transport in bulk accort TION 15: Regulatory informat National legislation Regulation under the Occupa	ord	ing to IMO instruments	ording to article 41 of the
Maritime transport in bulk acco TION 15: Regulatory informat National legislation Regulation under the Occupa A Material Safety Datasheet (M ISHA.	ord	ing to IMO instruments n nal Safety and Health Act PS) for this product is not required acc	
Maritime transport in bulk according to the second	ord	ing to IMO instruments	Threshold
Maritime transport in bulk acco TION 15: Regulatory informat National legislation Regulation under the Occupa A Material Safety Datasheet (M ISHA.	ord	ing to IMO instruments n nal Safety and Health Act PS) for this product is not required acc	
Maritime transport in bulk accord TION 15: Regulatory informat National legislation Regulation under the Occupa A Material Safety Datasheet (M ISHA. Regulation	tior	ing to IMO instruments nal Safety and Health Act S) for this product is not required acc Chemical name Not applicable	Threshold
Maritime transport in bulk acco TION 15: Regulatory informat National legislation Regulation under the Occupa A Material Safety Datasheet (M ISHA. Regulation Harmful Substances Prohibited from Manufacturing	tior	ing to IMO instruments nal Safety and Health Act S) for this product is not required acc Chemical name Not applicable Not applicable	Threshold
Maritime transport in bulk accord TION 15: Regulatory informat National legislation Regulation under the Occupa A Material Safety Datasheet (M ISHA. Regulation Harmful Substances	tior	ing to IMO instruments nal Safety and Health Act S) for this product is not required acc Chemical name Not applicable	Threshold
Maritime transport in bulk acco TION 15: Regulatory informat National legislation Regulation under the Occupa A Material Safety Datasheet (M ISHA. Regulation Harmful Substances Prohibited from Manufacturing Harmful Substances Required	tior	ing to IMO instruments nal Safety and Health Act S) for this product is not required acc Chemical name Not applicable Not applicable	Threshold

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Regulation	Ch	emical name	Threshold limits
Toxic Chemicals	: No	t applicable	
		t applicable	
Prohibited Chemicals		t applicable	
		t applicable	
Restricted Chemicals		t applicable	
		t applicable	
Toxic Release Inventory	: No	t applicable	
	No	t applicable	
Safety Management Act			
Regulations by the Waste Management Act		Not applicable	
Regulations by other domes Europe REACH Switzerland CH INV United States of America (USA TSCA Canada DSL		 This product is in full compliance regulation 1907/2006/EC. On the inventory, or in complian On or in compliance with the ac TSCA inventory All components of this product a 	ice with the inventory tive portion of the
Australia AIIC New Zealand NZIoC		DSL On the inventory, or in complian On the inventory, or in complian	ice with the inventory
Japan ENCS Korea KECI		 Notification number: HSR00260 On the inventory, or in complian All substances in this product we to be registered, or exempted fr CPChem through an Only Represent K-REACH regulations. Importation permitted if the Korean Importer included on CPChem's notification 	ere with the inventory ere registered, notified om registration by esentative according to tion of this product is of Record was ions or if the Importer of
Philippines PICCS Taiwan TCSI China IECSC		 On the inventory, or in complian On the inventory, or in complian On the inventory, or in complian 	ce with the inventory

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SECTION 16: Other information

Source of data	:	
Date of initial writing	: 2020-09-08	
Revision number	: 1	
Last revision date	: 2025-04-02	
NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0	



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		Lethal Dose 50%			
Government Industrial Hygienists					
Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effect			
Chemicals		Level			
Canada, Domestic Substances	NFPA	National Fire Protection Agency			
List					
Canada, Non-Domestic	NIOSH	National Institute for Occupational			
Substances List		Safety & Health			
Central Nervous System	NTP	National Toxicology Program			
Chemical Abstract Service	NZIoC	New Zealand Inventory of			
		Chemicals			
Effective Concentration	NOAEL	No Observable Adverse Effect			
		Level			
	American Conference of Government Industrial Hygienists Australian Inventory of Industrial Chemicals Canada, Domestic Substances List Canada, Non-Domestic Substances List Central Nervous System Chemical Abstract Service	American Conference of Government Industrial HygienistsLD50Australian Inventory of Industrial ChemicalsLOAELChemicalsNFPAListNIOSHSubstances ListNIOSHCentral Nervous SystemNTPChemical Abstract ServiceNZIoC			

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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

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