

## C12 PAO

Version 1.7

Revision Date 2022-09-09

CTION 1: Identification of the substance/mixture and of the company/undertaking		
Product information		
Product Name	:	C12 PAO
Material	:	1113716
11		Oursthatis Luchrissiste
Use	:	Synthetic Lubricants
Company		Chevron Phillips Chemical Company LP
Company	•	10001 Six Pines Drive
		The Woodlands, TX 77380
Emergency telephone:		
Health:		
866.442.9628 (North /		
1.832.813.4984 (Inter	national	
Transport:		
CHEMTREC 800.424		
		186 1132) China: 0532 8388 9090
Mexico CHEMTREC (		
		side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159		
		5 (phone) or +32.14583516 (telefax)
Belgium: 070 245 245		(24 hours/day, 7 days/week)
Bulgaria: +359 2 9154		uis/uay, / uays/week)
		hours/day, 7 days/week)
Cyprus: 1401	742 (24	nouis/uay, r uays/week)
	cologica	I Information Center +420 224 919 293, +420 224 915 402
		iter (Giftlinjen): +45 8212 1212
		(phone) or +32.14583516 (telefax)
Finland: 0800 147 111 09 471 977 (24 hours/day)		
		RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)
		5 (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)		
		phone) or +32.14583516 (telefax)
		one) or +32.14583516 (telefax)
		Service, phone number: 112; Toxicology and Sepsis Clinic
		ion Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371
67042473. (24 hours.		
Liechtenstein: BIG +3	2.14.58	4545 (phone) or +32.14583516 (telefax)
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Malta: +356 2395 2000 The Netherlands: NVIC: Norway: 22 59 13 00 (24 Poland: BIG +32.14.584 Portugal: CIAV phone nu Romania: +4021318360 Slovakia: +421 2 5477 4 Slovenia: Phone number	D2 5500 (24 hours/day, 7 days/week) +31 (0)88 755 8000 4 hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax) umber: +351 800 250 250 6 -166 r: 112 ncy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24			
Responsible Department E-mail address Website	<ul> <li>Product Safety and Toxicology Group</li> <li>SDS@CPChem.com</li> <li>www.CPChem.com</li> </ul>			
<b>SECTION 2: Hazards identifica</b>	ation			
This product has been class	<b>Classification of the substance or mixture</b> This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard. <b>Classification</b>			
Not a hazardous substance	e or mixture.			
Labeling Not a hazardous substance	e or mixture.			
Carcinogenicity:				
IARC	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.			
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.			
SECTION 3: Composition/info	rmation on ingredients			
Synonyms	: R02253 R05051 Polyalphaolefin PAO			
Molecular formula	: Polymer			

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Contains no hazardous ingredients according to GHS.

#### **SECTION 4: First aid measures**

General advice	:	No hazards which require special first aid measures. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this material safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air in case of accidental inhalation of vapors. Consult a physician after significant exposure.
In case of skin contact	:	Remove contaminated clothing. If irritation develops, get medical attention. Wash off immediately with plenty of water.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	If swallowed, DO NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

#### SECTION 5: Firefighting measures

Flash point	:	246-271°C (475-520°F) Method: Cleveland Open Cup
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	:	In the event of fire, wear self-contained breathing apparatus.
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 measures		
Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can
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		create slippery conditions.
Environmental precautions	:	No special environmental precautions required.
Methods for cleaning up	:	Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.
Additional advice	:	No conditions to be specially mentioned.
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
Use CTION 8: Exposure controls	: /per	·
CTION 8: Exposure controls	: /per	·
CTION 8: Exposure controls Engineering measures Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels o recommended. The user sh	ds o ces nt. f this ould on is	f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecti If engineering controls or work practices are not adequate to preve s 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
CTION 8: Exposure controls Engineering measures Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels o recommended. The user sh the equipment since protecti	ds o ces nt. f this ould on is	f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecti If engineering controls or work practices are not adequate to preve s 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 t
CTION 8: Exposure controls Engineering measures Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels o recommended. The user sh the equipment since protecti Personal protective equipment	rds o ces nt. f this ould on is <b>nen</b>	sonal protection f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecti If engineering controls or work practices are not adequate to preve s 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 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

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Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Lightweight protective clothing.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
Protective measures	: Wear suitable protective equipment. When using do not eat, drink or smoke.
CTION 9: Physical and chem	ical properties
Information on basic novs	ical and chemical properties
Appearance	
Form	: liquid
Physical state	: liquid
Color Odor	: Colorless : Odorless
Ouoi	. Odoness
Safety data	
Flash point	: 246-271°C (475-520°F) Method: Cleveland Open Cup
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: no
Autoignition temperature	: 351°C (664°F)
Molecular formula	: Polymer
Molecular weight	: Not applicable
рН	: Not applicable
Pour point	: <-42°C (<-44°F)
Boiling point/boiling range	: >260°C (>500°F)
Vapor pressure	: No data available
Density	: 6.87 - 6.96 L/G
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Viscosity, kinematic	: 38 cSt at 40°C (104°F) Method: ASTM D 445
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Relative vapor density	: No data available
Evaporation rate	: No data available
TION 10: Stability and reacti	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	: Hazardous reactions: No dangerous reaction known under conditions of normal use.
	Hazardous reactions: Hazardous polymerization does not occur.
	Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available.
Materials to avoid Hazardous decomposition products	<ul> <li>May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.</li> <li>Carbon oxides</li> </ul>
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological infor	mation
C12 PAO Acute oral toxicity	<ul> <li>LD50: &gt; 5,000 mg/kg</li> <li>Species: Rat</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
C12 PAO Acute inhalation toxicity	<ul> <li>LC50: &gt; 5 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist Information given is based on data obtained from similar substances.</li> </ul>
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Acute dermal toxicity	<ul> <li>LD50: &gt; 2,000 mg/kg</li> <li>Species: Rat</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
C12 PAO Skin irritation	: No skin irritation Information given is based on data obtained from similar substances.
C12 PAO Eye irritation	: No eye irritation Information given is based on data obtained from similar substances.
C12 PAO Sensitization	: Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.
C12 PAO Repeated dose toxicity	<ul> <li>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.</li> </ul>
C12 PAO Genotoxicity in vitro	<ul> <li>Test Type: Ames test Result: negative Remarks: Information refers to the main ingredient.</li> <li>Test Type: Chromosome aberration test in vitro Result: negative Remarks: Information refers to the main ingredient.</li> </ul>
C12 PAO Genotoxicity in vivo	: Test Type: Mouse micronucleus assay Result: negative Remarks: Information refers to the main ingredient.
C12 PAO Aspiration toxicity Toxicology Assessment	: No aspiration toxicity classification.
C12 PAO CMR effects	: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Animal testing did not show any mutagenic effects.
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	Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction		
SECTION 12: Ecological informat	tion		
Ecotoxicity effects			
Toxicity to fish	<ul> <li>LL50: &gt; 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) static test Test substance: no Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.</li> </ul>		
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>EL50: &gt; 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Test substance: no Method: OECD Test Guideline 202 Information given is based on data obtained from similar substances.</li> </ul>		
Toxicity to algae	<ul> <li>NOEC: &gt; 1,000 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (algae) Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.</li> </ul>		
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC: 125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: no The product has low solubility in the test medium. An aqueous dispersion was tested. Information given is based on data obtained from similar substances.</li> </ul>		
Biodegradability	: This material is not expected to be readily biodegradable. Expected to be ultimately biodegradable		
Elimination information (persis	Elimination information (persistence and degradability)		
Bioaccumulation	: Method: QSAR modeled data This material is not expected to bioaccumulate.		
Mobility	: No data available		
Ecotoxicology Assessment			
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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.
CTION 13: Disposal considera	tions
The information in this SDS pe	rtains only to the product as shipped.
may meet the criteria of a haza other State and local regulation regulated components may be	urpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. Measurement of certain physical properties and analysis for necessary to make a correct determination. If this material is the, federal law requires disposal at a licensed hazardous waste
Product	: Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
Consult the appropriate domes Goods Regulations for additior	
Consult the appropriate domes Goods Regulations for addition etc.) Therefore, the informatio	ages (see regulatory definition). Stic or international mode-specific and quantity-specific Dangerous hal shipping description requirements (e.g., technical name or name n shown here, may not always agree with the bill of lading shipping
Consult the appropriate domes Goods Regulations for addition etc.) Therefore, the informatio description for the material. FI bill of lading.	ages (see regulatory definition). atic or international mode-specific and quantity-specific Dangerous hal shipping description requirements (e.g., technical name or name n shown here, may not always agree with the bill of lading shipping ashpoints for the material may vary slightly between the SDS and the EPARTMENT OF TRANSPORTATION) AZARDOUS MATERIAL OR DANGEROUS GOODS FOR
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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 a	according to IMO instruments	
SECTION 15: Regulatory inform	ation	
National legislation		
SARA 311/312 Hazards	: No SARA Hazards	
EPCRA - EMERGENCY PLAN	NNING COMMUNITY RIGHT - TO - KNOW	
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.	
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.	
SARA 302 Threshold Planning Quantity	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.	
SARA 313 Components	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
Potential Class I	oduct neither contains, nor was manufactured with a Class I or I ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR opt. A, App.A + B).	
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This product does not contain a Act Section 112 (40 CFR 61).	ny hazardous air pollutants (HAP), as defined by the U.S. Clean Air		
This product does not contain a 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 a Intermediate or Final VOC's (40	ny chemicals listed under the U.S. Clean Air Act Section 111 SOCMI OFR 60.489).		
US State Regulations			
Pennsylvania Right To Know :	No components are subject to the Pennsylvania Right to Know Act.		
New Jersey Right To Know :	No components are subject to the New Jersey 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	: This product is in full compliance according to REACH		
Switzerland CH INV United States of America (USA) TSCA Canada DSL	TSCA inventory All components of this product are on the Canadian		
Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	<ul> <li>DSL</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>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.</li> </ul>		
Philippines PICCS China IECSC Taiwan TCSI	<ul> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> </ul>		
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on
: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0
v
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the last version are highlighted in the margin. This version replaces all

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 Agency
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
>=	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
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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