

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	: Mixture
Product name	: Prista TO-4 SAE 10W
Product code	: T008/03
Type of product	: Transmission Oils.
Synonyms	: Transmission oils
Product group	: Blend

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Intended for general public	
Main use category	: Consumer use, Professional use, Industrial use
Industrial/Professional use spec	: Distribution Formulation & (re)packing of substances and mixtures Use in functional fluids
Use of the substance/mixture	: Transmission Oils.
Function or use category	: Use in functional fluids

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Prista Oil Holding EAD  
46 Treti Mart Blvd.  
7002 Ruse – Bulgaria  
Bulgaria  
T + 359 82 82 69 40  
[information@prista-oil.bg](mailto:information@prista-oil.bg) - <http://www.prista-oil.com/en>

#### 1.4. Emergency telephone number

Emergency number : Unified emergency number: 112

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

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Hazard statements (CLP)	: H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P264 - Wash hands thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves, eye protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

### 2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
phenol,dodecyl-, branched (121158-58-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Component	
phenol,dodecyl-, branched(121158-58-5)	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : CLP Calculation method

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic	CAS-No.: 64742-54-7 EC-No.: 265-157-1 REACH-no: 01-2119484627-25-0035; 01-2119484627-25-0025; 01-2119471299-27-0019	< 70	Not classified
Distillates (petroleum), solvent-dewaxed heavy paraffinic	CAS-No.: 64742-65-0 EC-No.: 265-169-7 REACH-no: 01-2119471299-27-0016; 01-2119471299-27-0003	< 70	Not classified
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	CAS-No.: 72623-87-1 EC-No.: 276-738-4 REACH-no: 01-2119474889-13-0000	< 25	Not classified
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635-27	0.9 – 1.2	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Phenol, para-alkylated products with C10-15 branched olefins (high C12 content) obtained from the oligomerization of propene, carbonates, Ca salts, overbase, sulphurous including dest(petroleum), hydrotreated, refined solvent / deparaffinized, cat.deparaffinized, light / heavy paraffins, C15-C50	CAS-No.: 68784-26-9 EC-No.: 701-251-5 REACH-no: 01-2119524004-56-0000	0.9 – 1.2	Aquatic Chronic 4, H413
Benzenesulfonic acid, methyl-, mono-C20-26-branched alkyl derivs., calcium salts	CAS-No.: 722503-69-7 EC-No.: Polymer REACH-no: *	0.3 – 0.5	Aquatic Chronic 4, H413
phenol, dodecyl-, branched substance listed as REACH Candidate (Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP))	CAS-No.: 121158-58-5 EC-No.: 310-154-3 REACH-no: 01-2119513207-49	< 0.2	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

### Comments

: Note L : The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ('Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method' Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.  
Exempted from REACH registration  
Full text of H-statements: see section 16

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person.

First-aid measures after inhalation

: Give oxygen or artificial respiration if necessary. Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.

First-aid measures after skin contact

: Wash skin with plenty of water. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

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First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER/doctor. Rinse mouth out with water. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. May cause headache, nausea and irritation of respiratory tract.
Symptoms/effects after skin contact	: Contact during a long period may cause light irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting. Risk of lung oedema.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: In case of fire and/or explosion do not breathe fumes.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

Precautionary measures fire	: Evacuate area. Eliminate all ignition sources if safe to do so.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: On exposure to high temperature, may decompose, releasing toxic gases.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Clean up any spills as soon as possible, using an absorbent material to collect it. Eliminate every possible source of ignition. Do not handle until all safety precautions have been read and understood. Notify authorities if product enters sewers or public waters.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area. Stop release. Cover spill with non combustible material, e.g.: sand/earth. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment.

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### 6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing mist, vapours. Wear personal protective equipment.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Comply with applicable regulations.
Storage conditions	: Store in a well-ventilated place. Keep cool.
Incompatible products	: Oxidizing agent.
Incompatible materials	: Sources of ignition.

### 7.3. Specific end use(s)

Product information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

##### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

###### EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	5 mg/m <sup>3</sup>
IOEL STEL	10 mg/m <sup>3</sup>

##### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

###### EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	5 mg/m <sup>3</sup>
IOEL STEL	10 mg/m <sup>3</sup>

##### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

###### EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	5 mg/m <sup>3</sup>
IOEL STEL	10 mg/m <sup>3</sup>

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

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### 8.1.4. DNEL and PNEC

**Phenol, para-alkylated products with C10-15 branched olefins (high C12 content) obtained from the oligomerization of propene, carbonates, Ca salts, overbase, sulphurous including dest(petroleum), hydrotreated, refined solvent / deparaffinized, cat.deparaffinized, light / heavy paraffins, C15-C50 (68784-26-9)**

#### PNEC (Water)

PNEC aqua (freshwater)	0.5 mg/l
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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Protective clothing. Protective goggles.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses. ISO 16321-1. EN 168

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

protective gloves: neoprene gloves, PVA. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). EN 420

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 405

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: brown.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -39 °C
Boiling point	: > 315 °C
Flammability	: Not applicable

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Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 230 °C
Auto-ignition temperature	: > 315 °C
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: 34.5 mm <sup>2</sup> /s @40°C
Solubility	: soluble in most organic solvents. insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: < 10 Pa
Vapour pressure at 50°C	: Not available
Density	: 0.879 g/ml @20°C
Relative density	: Not available
Relative vapour density at 20°C	: > 1
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401 method)
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### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	> 5 mg/l/4h (OECD 403 method)

### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	> 5 mg/l/4h (OECD 403 method)

### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	≈ 5.7 mg/l/4h (OECD 403 method)

### Phenol, para-alkylated products with C10-15 branched olefins (high C12 content) obtained from the oligomerization of propene, carbonates, Ca salts, overbase, sulphurous including dest(petroleum), hydrotreated, refined solvent / deparaffinized, cat.deparaffinized, light / heavy paraffins, C15-C50 (68784-26-9)

LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 4000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 1.67 mg/l 1h, (OECD 403 method)

### phenol,dodecyl-, branched (121158-58-5)

LD50 oral rat	2100 mg/kg bodyweight (OECD 401 method)
LD50 dermal rat	15000 mg/kg bodyweight (OECD 402 method)

Skin corrosion/irritation	: Not classified pH: Not applicable
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP
Carcinogenicity	: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP
Reproductive toxicity	: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

### phenol,dodecyl-, branched (121158-58-5)

NOAEL (oral, rat, 90 days)	15 mg/kg bodyweight/day (OECD 416 method)
NOAEL (subacute, oral, animal/male, 28 days)	60 mg/kg bodyweight (OECD 407 method)

Aspiration hazard : Not classified

### Prista TO-4 SAE 10W

Viscosity, kinematic	34.5 mm <sup>2</sup> /s @40°C
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## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

#### Component

phenol,dodecyl-, branched(121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available
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### 11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.  
Additional information : This product includes one or more constituents containing branched chain alkylphenols, which are highly toxic to aquatic organisms (see section 3). The ingredients containing these impurities are tested and non-toxic to aquatic organisms. Therefore, when determining the toxicity of the product to aquatic organisms should not use the alkylphenols data of Section 3.

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LC50 - Fish [1]	> 100 mg/l (OECD 203 method)
EC50 - Crustacea [1]	> 10000 mg/l (OECD 202 method)
EC50 72h - Algae [1]	> 1000 mg/l (OECD 201 method)
NOEL, aquatic invertebrates, Chronic	< 1 mg/l (21 days, (OECD 211 method))
NOEL, algae, Chronic	> 100 mg/l (72 Hours, (OECD 201 method))
NOEL, microorganisms, Chronic	> 1.93 mg/l (10 minutes, DIN 38412)
NOEL, daphnia, Chronic	> 10 mg/l (21 days)

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

LC50 - Fish [1]	> 100 mg/l (OECD 203 method)
EC50 - Crustacea [1]	> 10000 mg/l (OECD 202 method)
EC50 72h - Algae [1]	> 1000 mg/l (OECD 201 method)
NOEL, aquatic invertebrates, Chronic	< 1 mg/l (21 days, (OECD 211 method))
NOEL, algae, Chronic	> 100 mg/l (72 Hours, (OECD 201 method))
NOEL, microorganisms, Chronic	> 1.93 mg/l (10 minutes, DIN 38412)
NOEL, daphnia, Chronic	> 10 mg/l (21 days)

#### Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

LC50 - Fish [1]	4.4 mg/l (OECD 203 method)
EC50 - Crustacea [1]	> 65 mg/l (OECD 202 method)
EC50 72h - Algae [1]	240 mg/l
NOEC chronic algae	410 mg/l (OECD 201 method)

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

LC50 - Fish [1]	> 100 mg/l (OECD 203 method)
EC50 - Crustacea [1]	> 10000 mg/l (OECD 202 method)
EC50 72h - Algae [1]	> 1000 mg/l (OECD 201 method)
NOEL, aquatic invertebrates, Chronic	< 1 mg/l (21 days, (OECD 211 method))
NOEL, algae, Chronic	> 100 mg/l (72 Hours, (OECD 201 method))

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<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)</b>	
NOEL, microorganisms, Chronic	> 1.93 mg/l (10 minutes, DIN 38412)
NOEL, daphnia, Chronic	> 10 mg/l (21 days)
<b>Phenol, para-alkylated products with C10-15 branched olefins (high C12 content) obtained from the oligomerization of propene, carbonates, Ca salts, overbase, sulphurous including dest(petroleum), hydrotreated, refined solvent / deparaffinized, cat.deparaffinized, light / heavy paraffins, C15-C50 (68784-26-9)</b>	
LC50 - Fish [1]	> 1000 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna (Water flea)
EC50 - Other aquatic organisms [1]	> 10000 mg/l microorganisms, 3h
EC50 96h - Algae [1]	> 500 mg/l Pseudokirchneriella subcapitata
<b>phenol,dodecyl-, branched (121158-58-5)</b>	
LC50 - Fish [1]	40 mg/l (OECD 203 method)
EC50 - Crustacea [1]	> 0.037 mg/l (OECD 202 method)
EC50 - Other aquatic organisms [1]	> 1000 mg/l
EC50 72h - Algae [1]	0.36 mg/l (OECD 201 method)
ErC50 algae	> 1000 mg/l (OECD 209 method)
NOEC (acute)	1000 mg/l (OECD 209 method)
<b>12.2. Persistence and degradability</b>	
<b>Prista TO-4 SAE 10W</b>	
Persistence and degradability	Not readily biodegradable, according to appropriate OECD test due to properties of several components.
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
Persistence and degradability	Not readily biodegradable, according to appropriate OECD test due to properties of several components.
Biodegradation	< 32 % (OECD 301B method)
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
Persistence and degradability	Not readily biodegradable, according to appropriate OECD test due to properties of several components.
Biodegradation	< 32 % (OECD 301B method)
<b>Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)</b>	
Biodegradation	< 5 % (OECD 301D method)
<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)</b>	
Persistence and degradability	Not readily biodegradable, according to appropriate OECD test due to properties of several components.
Biodegradation	< 32 % (OECD 301B method)
<b>Phenol, para-alkylated products with C10-15 branched olefins (high C12 content) obtained from the oligomerization of propene, carbonates, Ca salts, overbase, sulphurous including dest(petroleum), hydrotreated, refined solvent / deparaffinized, cat.deparaffinized, light / heavy paraffins, C15-C50 (68784-26-9)</b>	
Biodegradation	4.7 – 10.8 % (OECD 301B method)

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### phenol,dodecyl-, branched (121158-58-5)

Chemical oxygen demand (COD)	10 g O <sub>2</sub> /l
Biodegradation	< 25 % (OECD 301D method)

### 12.3. Bioaccumulative potential

#### Prista TO-4 SAE 10W

Bioaccumulative potential	Bioaccumulative potential.
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#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Partition coefficient n-octanol/water (Log Kow)	3.5 – 6 Moderately bioaccumulative
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#### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

Partition coefficient n-octanol/water (Log Kow)	3.5 – 6 Moderately bioaccumulative
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#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Partition coefficient n-octanol/water (Log Kow)	3.5 – 6 Moderately bioaccumulative
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#### Phenol, para-alkylated products with C10-15 branched olefins (high C12 content) obtained from the oligomerization of propene, carbonates, Ca salts, overbase, sulphurous including dest(petroleum), hydrotreated, refined solvent / deparaffinized, cat.deparaffinized, light / heavy paraffins, C15-C50 (68784-26-9)

Bioconcentration factor (BCF REACH)	≈ 2.2
Partition coefficient n-octanol/water (Log Kow)	11.08 measured data

### phenol,dodecyl-, branched (121158-58-5)

Partition coefficient n-octanol/water (Log Kow)	7.14
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Prista TO-4 SAE 10W

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

### 12.6. Endocrine disrupting properties

#### Component

phenol,dodecyl-, branched(121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available
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### 12.7. Other adverse effects

Additional information : No other effects known

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Avoid release to the environment.

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European List of Waste (LoW) code : 13 02 05\* - mineral-based non-chlorinated engine, gear and lubricating oils

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

#### EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	Prista TO-4 SAE 10W ; Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) ; phenol,dodecyl-, branched	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

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### EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(c)	Prista TO-4 SAE 10W ; Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) ; Phenol, para-alkylated products with C10-15 branched olefins (high C12 content) obtained from the oligomerization of propene, carbonates, Ca salts, overbase, sulphurous including dest(petroleum), hydrotreated, refinedsolvent / deparaffinized, cat.deparaffinized, light / heavy paraffins, C15-C50 ; Benzenesulfonic acid, methyl-, mono-C20-26- branched alkyl derivs., calcium salts ; phenol,dodecyl-, branched	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
30.	phenol,dodecyl-, branched	Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1\%$  or SCL: Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (EC 310-154-3, CAS 121158-58-5)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

**For the following substances of this mixture a chemical safety assessment has been carried out:**

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

### SECTION 16: Other information

#### Indication of changes:

Exposure controls/personal protection. Toxicological information. Ecological information. Regulatory information.

#### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	: None.

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360F	May damage fertility.

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Full text of H- and EUH-statements:	
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C

PRISTA SDS design EU 2022

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.