



# Prista PSF

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Revision date: 12/30/2022 Supersedes version of: 5/1/2020

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

#### 1.1. Product identifier

Product form	: Mixture
Product name	: Prista PSF
Product code	: H015/03
Type of product	: Hydraulic Fluids, Transmission Oils.
Synonyms	: Special Transmission Fluid
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/Professional use spec	: Distribution Formulation & (re)packing of substances and mixtures Used in closed systems Transmission Oils.
Function or use category	: Use in functional fluids, Lubricants, Greases and Release Products

##### 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]

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

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Signal word (CLP)	: -
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P273 - Avoid release to the environment. 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

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not 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 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : CLP Calculation method

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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; 01-2119474889-13-0003	0 – 95	Asp. Tox. 1, H304
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	0 – 95	Not classified
Distillates (petroleum), hydrotreated light paraffinic	CAS-No.: 64742-55-8 EC-No.: 265-158-7 REACH-no: 01-2119487077-29-0005	< 5	Asp. Tox. 1, H304
Bis(nonylphenyl)amine	CAS-No.: 36878-20-3 EC-No.: 253-249-4 REACH-no: 01-2119488911-28	< 0.85	Aquatic Chronic 4, H413
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich	CAS-No.: 398141-87-2 EC-No.: 800-172-4 REACH-no: 01-2119969520-35	< 0.2	Aquatic Chronic 2, H411
Reaction products of an alkylthioalcohol and substituted phosphorous compounds	CAS-No.: - EC-No.: 424-820-7 REACH-no: 01-0000017126-75	< 0.2	Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	CAS-No.: - EC-No.: 930-859-5 REACH-no: 01-2120763467-44	< 0.1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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.  
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.  
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 : May cause slight 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.

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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.

##### 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.

#### 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

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### 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>

### 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

#### 8.1.4. DNEL and PNEC

### Bis(nonylphenyl)amine (36878-20-3)

#### DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	0.62 mg/kg bw/day
Long-term - systemic effects, inhalation	4.37 mg/m <sup>3</sup>

#### DNEL/DMEL (General population)

Long-term - systemic effects, oral	0.31 mg/kg bw/day
Long-term - systemic effects, inhalation	1.09 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0.31 mg/kg bw/day

#### PNEC (Water)

PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l

### Reaction products of an alkylthioalcohol and substituted phosphorous compounds (-)

#### PNEC (Water)

PNEC aqua (freshwater)	0.036 mg/l
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#### PNEC (Sediment)

PNEC sediment (freshwater)	0.128 mg/kg dwt
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#### PNEC (Soil)

PNEC soil	0.104 mg/kg dwt
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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.

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### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses. EN 166. 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	: red.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -40 °C
Boiling point	: > 315 °C
Flammability	: Not applicable
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 200 °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.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: < 10 Pa
Vapour pressure at 50°C	: Not available
Density	: 0.845 g/ml @20°C
Relative density	: Not available
Relative vapour density at 20°C	: > 1
Particle characteristics	: Not applicable

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### 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 (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### 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)

#### 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)

#### Bis(nonylphenyl)amine (36878-20-3)

LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)

#### Reaction products of an alkylthioalcohol and substituted phosphorous compounds (-

LD50 oral	> 2000 mg/kg
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### Reaction products of an alkylthioalcohol and substituted phosphorous compounds (-

LD50 dermal	> 500 mg/kg
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### N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine (-

LD50 oral rat	> 2000 mg/kg (OECD 401 method)
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LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)
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Skin corrosion/irritation	: Not classified pH: Not applicable
Serious eye damage/irritation	: Not classified 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

### Reaction products of an alkylthioalcohol and substituted phosphorous compounds (-

NOAEL (animal/male, F1)	150 mg/kg (OECD 421 method)
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### N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine (-

NOAEL (animal/male, F1)	100 mg/kg (OECD 421 method)
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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)
Aspiration hazard	: Not classified

### Prista PSF

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

No additional information available

### 11.2.2. Other information

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

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

LC50 - Fish [1]	> 100 mg/l (OECD 203 method)
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EC50 - Crustacea [1]	> 10000 mg/l (OECD 202 method)
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EC50 72h - Algae [1]	> 1000 mg/l (OECD 201 method)
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NOEL, aquatic invertebrates, Chronic	< 1 mg/l (21 days, (OECD 211 method))
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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>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)</b>	
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)
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
LC50 - Fish [1]	> 100 mg/l (OECD 203 method)
EC50 - Crustacea [1]	> 10000 mg/l (OECD 202 method)
EC50 72h - Algae [1]	> 100 mg/l
NOEL, Chronic, Inhalation	> 1,93 mg/l (10 min)
<b>Bis(nonylphenyl)amine (36878-20-3)</b>	
LC50 - Fish [1]	> 100 mg/l Danio rerio, (OECD 203)
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna (Water flea), (OECD 202)
EC50 72h - Algae [1]	Desmodesmus subspicatus, (OECD 201)
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich (398141-87-2)</b>	
LC50 - Fish [1]	3.3 mg/l (OECD 203 method)
EC50 - Crustacea [1]	4.6 mg/l (OECD 202 method)
EC50 72h - Algae [1]	63 mg/l (OECD 201 method)
NOEC chronic fish	1 mg/l
NOEC chronic crustacea	0.63 mg/l
NOEC chronic algae	0.313 mg/l
<b>Reaction products of an alkylthioalcohol and substituted phosphorous compounds (-)</b>	
LC50 - Fish [1]	≥ 1.5 mg/l Oncorhynchus mykiss (Rainbow trout), OECD 203
EC50 - Crustacea [1]	≥ 0.09 mg/l Daphnia magna (Water flea), OECD 202
EC50 72h - Algae [1]	≥ 0.31 mg/l Pseudokirchneriella subcapitata, (OECD 203)
NOEC (chronic)	0.14 mg/l daphnia
NOEC chronic crustacea	0.14 mg/l daphnia, 21 d
M-Factor chronic (CLP)	10
<b>N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine (-)</b>	
LC50 - Fish [1]	690 mg/l Cyprinodon variegatus (sheepshead minnow), (OECD 203)
EC50 - Crustacea [1]	> 4 mg/l Daphnia magna (Water flea), (OECD 202)
EC50 72h - Algae [1]	0.25 mg/l Pseudokirchneriella subcapitata, (OECD 201)

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### 12.2. Persistence and degradability

#### Prista PSF

Persistence and degradability	Not readily biodegradable, according to appropriate OECD test due to properties of several components.
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#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Persistence and degradability	Not readily biodegradable, according to appropriate OECD test due to properties of several components.
Biodegradation	< 32 % (OECD 301B method)

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

Persistence and degradability	Not readily biodegradable, according to appropriate OECD test due to properties of several components.
Biodegradation	< 32 % (OECD 301B method)

#### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Biodegradation	< 32 %
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#### Bis(nonylphenyl)amine (36878-20-3)

Persistence and degradability	Not readily biodegradable.
Biodegradation	1 %

#### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich (398141-87-2)

Persistence and degradability	Not readily biodegradable.
Biodegradation	9.6 % Not readily biodegradable

#### Reaction products of an alkylthioalcohol and substituted phosphorous compounds (-)

Persistence and degradability	Inherently biodegradable.
Biodegradation	52.9 % 60 days

#### N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine (-)

Persistence and degradability	Not readily biodegradable.
Biodegradation	56.8 % 28 days, (OECD 301 B)

### 12.3. Bioaccumulative potential

#### Prista PSF

Bioaccumulative potential	Bioaccumulative potential.
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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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#### 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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#### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Partition coefficient n-octanol/water (Log Pow)	3.5 (≥ 6)
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#### Bis(nonylphenyl)amine (36878-20-3)

Partition coefficient n-octanol/water (Log Pow)	7.6
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### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich (398141-87-2)

BCF - Fish [1]	27.54
Partition coefficient n-octanol/water (Log Kow)	4.1 Moderately bioaccumulative

### N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine (-)

Partition coefficient n-octanol/water (Log Pow)	> 5.2
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Prista PSF

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

### 12.6. Endocrine disrupting properties

No additional information available

### 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.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Avoid release to the environment.
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				

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### 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)	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Distillates (petroleum), hydrotreated light paraffinic ; Reaction products of an alkylthioalcohol and substituted phosphorous compounds ; N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	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
3(c)	Prista PSF ; Bis(nonylphenyl)amine ; Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich ; Reaction products of an alkylthioalcohol and substituted phosphorous compounds ; N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	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

Contains no substance(s) listed on the REACH Candidate List

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 substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer):

Tetrachlorodifluoroethane (-)

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

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Contains 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:**

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

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

## SECTION 16: Other information

### Indication of changes:

Composition/information on ingredients. 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
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.

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Other information : None.

### Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
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
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
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.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C

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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.