

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 8/8/2017 Supersedes: 4/3/2017

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

1.1. Product identifier

Product form : Mixture

Product name : Prista Antifreeze Long Life

Product code : TA004/01
Type of product : Antifreeze
Synonyms : Antifreeze
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

Use of the substance/mixture : Functional Fluids

Anti-freezing agent

1.2.2. Uses advised against

Restrictions on use : Comply with instructions for use (refer to technical sheet)

1.3. Details of the supplier of the safety data sheet

Prista Oil Holding EAD 46 Treti Mart Blvd. 7002 Ruse - Bulgaria T + 359 82 82 69 40

information@prista-oil.bg - http://www.prista-oil.com/en

1.4. Emergency telephone number

Emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302 Reproductive toxicity, Category 2 H361 Specific target organ toxicity — H373

Repeated exposure, Category 2

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

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

Hazard pictograms (CLP)





GHS07 GHS08

Signal word (CLP) : Warning

Hazardous ingredients : ethanediol, ethylene glycol; Sodium 2-ethylhexanoate

Hazard statements (CLP) : H302 - Harmful if swallowed.

H361 - Suspected of damaging the unborn child..

H373 - May cause damage to organs (kidneys, liver, central nervous system) through

prolonged or repeated exposure.

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Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves.

P301+P312 - IF SWALLOWED: Call a POISON CENTER if you feel unwell P308+P313 - IF exposed or concerned: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements : EUH210 - Safety data sheet available on request.

Security closing plug for children : Not applicable Tactile warning : Applicable

2.3. Other hazards

PBT: not relevant – no registration required vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Comments

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanediol, ethylene glycol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (REACH-no) 01-2119456816-28	< 98	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Sodium 2-ethylhexanoate	(CAS-No.) 19766-89-3 (EC-No.) 243-283-8	3.75 - 7.5	Repr. 2, H361d
Methyl-1H-benzotriazole	(CAS-No.) 29385-43-1 (EC-No.) 249-596-6 (REACH-no) 01-2119979081-35	< 0.1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

 Not available REACH number or substance is not currently required for registration under REACH

SECTION 4: First aid measures

First-aid measures after inhalation

4.1. Description of first aid measures

First-aid measures general : Call a poi

: Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person.

: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial

respiration if necessary. Get immediate medical advice/attention.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Drink plenty of water. Get immediate medical advice/attention. Do NOT induce vomiting. Never

give anything by mouth to an unconscious person. Toxic if swallowed. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. Difficulty in breathing. Blurred vision. Respiratory collapse. Antidote: Intravenous ethanol in sodium bicarbonate solution. For further assistance, contact a local hospital or Department of Health.

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

Symptoms/effects : May be fatal if swallowed and enters airways.

Symptoms/effects after inhalation : May cause drowsiness or dizziness. May cause headache, nausea and irritation of respiratory

tract.

Symptoms/effects after skin contact : Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : May cause slight irritation. redness, itching, tears.

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Symptoms/effects after ingestion

Toxic if swallowed. May cause drowsiness and loss of coordination. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Thirst. Convulsions. Prompt treatment is essential to minimize damage.

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.

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe vapours, mist. Avoid contact with skin and eyes.

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. Wear personal protective equipment. Avoid

breathing vapours, mist. Avoid contact with skin and eyes.

Hygiene measures : 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

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

ethanediol, ethylene glycol (107-21-1)		
EU	Local name	Ethylene glycol
EU	IOELV TWA (mg/m³)	52 mg/m³
EU	IOELV TWA (ppm)	20 ppm

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ethanediol, ethylene glycol (107-21-1)		
EU	IOELV STEL (mg/m³)	104 mg/m³
EU	IOELV STEL (ppm)	40 ppm
EU	Notes	Skin

ethanediol, ethylene glycol (107-21-1)		
DNEL/DMEL (Workers)		
Long-term - local effects, dermal	106 mg/cm ²	
Long-term - local effects, inhalation	35 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects, dermal	53 mg/kg bodyweight/day	
Long-term - local effects, inhalation	7 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	10 mg/l	
PNEC aqua (marine water)	1 mg/l	
PNEC aqua (intermittent, freshwater)	10 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	20.9 mg/kg dwt	
PNEC (Soil)		
PNEC soil	1.53 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	199.5 mg/l	
Methyl-1H-benzotriazole (29385-43-1)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	8.8 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.25 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	4.4 mg/m³	
Long-term - systemic effects, dermal	0.25 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.008 mg/l	
PNEC aqua (marine water)	0.008 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.0025 mg/kg dwt	
PNEC sediment (marine water)	0.0025 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.0024 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	39.4 mg/l	
8.2 Exposure controls		

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Gloves. Protective clothing. Protective goggles.

Hand protection:

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

Eye protection:

Safety glasses. EN 166. EN 168

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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

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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 : slight.

Odour threshold : No data available pH : No data available pH solution : 8.4 @ 50% Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : -15 °C Boiling point : > 163 °C

Flash point : > 115 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Not applicable

Vapour pressure : < 0.06 mm Hg @20°C

Relative vapour density at 20 °C : > 2

Relative density : No data available

Density : 1.12 g/ml

Solubility : Soluble in water.
Log Pow : No data available

Log Kow : -1.36 not bioaccumulable

Viscosity, kinematic : 22 cSt @40°C
Viscosity, dynamic : No data available
Explosive properties : Not applicable.
Oxidising properties : Not applicable.
Explosive limits : No data available

9.2. Other information

Other properties : Material is hygroscopic.

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). Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

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.

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EC50 Daphnia 2

EC50 72h algae (1)

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11.1. Information on toxicological effects			
Acute toxicity	: Oral: Harmful if swallowed.		
ATE CLP (oral)	541.1255411255 mg/kg bodyweight		
ethanediol, ethylene glycol (107-21-1)			
LD50 oral rat	7712 mg/kg (OECD 401 method)		
LD50 oral	1.4 ml/kg Animals		
LD50 dermal rat	> 3500 mg/kg (OECD 402 method)		
LD50 dermal rabbit	10600 mg/kg (OECD 402 method)		
LC50 inhalation rat (mg/l)	> 2.5 mg/l/4h (OECD 403 method)		
LC, Effects on humans, acute, oral, central nervous system	100 ml		
Methyl-1H-benzotriazole (29385-43-1)			
LD50 oral rat	720 mg/kg (OECD 401 method)		
LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)		
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)		
Reproductive toxicity	: When administered to pregnant rats by gavage or in drinking water, 2-EXA caused teratogenicity (birth defects) and delayed postnatal development of the pups. Additionally, 2 EXA impaired female fertility in rats. (Conclusive but not sufficient for classification)		
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)		
STOT-repeated exposure	: Ethylene Glycol. May cause kidney and liver disease, and disorders of the central nervous system		
Additional information	: 2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet.		
ethanediol, ethylene glycol (107-21-1)			
LOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day (OECD 407 method)		
Sodium 2-ethylhexanoate (19766-89-3)			
LOAEL (oral, rat, 90 days)	446 mg/kg bodyweight/day		
NOAEL (oral, rat, 90 days)	100 - 600 mg/kg bodyweight/day (OECD 414 method)		
spiration hazard	: Not classified		
Prista Antifreeze Long Life			
Viscosity, kinematic	22 mm²/s @40°C		
SECTION 12: Ecological information			
2.1. Toxicity			
cology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.		
ethanediol, ethylene glycol (107-21-1)			
LC50 fish 1	>= 40761 mg/l (OECD 203 method)		
LC50 fish 2	>= 72860 mg/l (OECD 203 method)		
EC50 Daphnia 1	> 100 mg/l (OECD 202 method)		
EC50 72h algae (1)	9500 - 13000 mg/l (OECD 201 method)		
NOEC chronic fish	15380 mg/l		
Methyl-1H-benzotriazole (29385-43-1)			
LC50 fish 1	180 mg/l (OECD 201 method)		
LC50 fish 2	55 mg/l (OECD 201 method)		
EC50 Daphnia 1	100 mg/l (OECD 202 method)		

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55 mg/l (OECD 202 method)

53 mg/l (OECD 203 method)

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Prista Antifreeze Long Life		
Readily biodegradable.		
ethanediol, ethylene glycol (107-21-1)		
Readily biodegradable.		
> 94 % (OECD 301B method)		
Readily biodegradable.		
> 85 % (OECD 302B method)		
12.3. Bioaccumulative potential		
-1.36 not bioaccumulable		
ethanediol, ethylene glycol (107-21-1)		
-1.36 not bioaccumulable		
not bioaccumulable.		
Methyl-1H-benzotriazole (29385-43-1)		
0		
2.4 l/kg		

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

12.0. Results of FBT and VI VB assessment		
Prista Antifreeze Long Life		
PBT: not relevant – no registration required		
vPvB: not relevant – no registration required		
PBT: not relevant – no registration required vPvB: not relevant – no registration required		

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

European List of Waste (LoW) code : 16 01 14* - antifreeze fluids containing dangerous substances

SECTION 14: Transport information

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

UN-No. (ADR) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

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IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : 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. Transport in bulk according to Annex II of Marpol and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) 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	Prista Antifreeze Long Life - ethanediol, ethylene glycol - Methyl-1H- benzotriazole
3(c) 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	Methyl-1H-benzotriazole

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADR European Agree ATE Acute Toxicity E BCF Bioconcentratio CLP Classification Li	on factor abelling Packaging Regulation; Regulation (EC) No 1272/2008 Il Effect level
ATE Acute Toxicity E BCF Bioconcentratio CLP Classification L	Estimate on factor abelling Packaging Regulation; Regulation (EC) No 1272/2008 of Effect level
BCF Bioconcentratio CLP Classification L	on factor abelling Packaging Regulation; Regulation (EC) No 1272/2008 Il Effect level
CLP Classification L	abelling Packaging Regulation; Regulation (EC) No 1272/2008 Il Effect level
	Il Effect level
DMEI Derived Minima	. —
DIVIEL Delived Willillia	
DNEL Derived-No Effe	ect Level
EC50 Median effective	e concentration
IARC International Ag	pency for Research on Cancer
IATA International Air	r Transport Association
IMDG International Ma	aritime Dangerous Goods
LC50 Median lethal co	oncentration
LD50 Median lethal d	ose
LOAEL Lowest Observe	ed Adverse Effect Level
NOAEC No-Observed A	dverse Effect Concentration
NOAEL No-Observed A	dverse Effect Level
NOEC No-Observed E	ffect Concentration
OECD Organisation fo	r Economic Co-operation and Development
PBT Persistent Bioa	ccumulative Toxic
PNEC Predicted No-E	ffect Concentration
RID Regulations cor	ncerning the International Carriage of Dangerous Goods by Rail
STP Sewage treatme	ent plant
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:

Acute toxicity (oral), Category 4
Hazardous to the aquatic environment — Chronic Hazard, Category 2
Reproductive toxicity, Category 2
Reproductive toxicity, Category 2
Specific target organ toxicity — Repeated exposure, Category 2
Harmful if swallowed.
Suspected of damaging fertility or the unborn child.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.
Safety data sheet available on request.

SDS EU (REACH Annex II) Prista

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

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