

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 1/15/2018 Supersedes: 8/8/2017

	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Prista ANTIFREEZE-concentrate
Product code	: TA003/01B-S
Type of product	: Antifreeze
Synonyms	: Antifreeze
Product group	: Blend
1.2. Relevant identified uses of the sub-	stance 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	
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	: Unified emergency number: 112
SECTION 2: Hazards identification	
2.1. Classification of the substance or r	nixture
Classification according to Regulation (EC) I	No. 1272/2008 [CLP]
Acute toxicity (oral), Category 4 H302	
Specific target organ toxicity — H373	
Repeated exposure, Category 2	
Full text of H statements : see section 16	
Adverse physicochemical, human health and	
Harmful if swallowed. May cause damage to org	ans through prolonged or repeated exposure.
2.2. Label elements	
Labelling according to Regulation (EC) No. 1	272/2008 ICL P1
Hazard pictograms (CLP)	
	GHS07 GHS08
Signal word (CLP)	: Warning
Hazardous ingredients	: ethanediol, ethylene glycol
Hazard statements (CLP)	: H302 - Harmful if swallowed.
	H373 - May cause damage to organs (kidneys, liver, central nervous system) through
Propultionary statements (CLD)	prolonged or repeated exposure.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand.

Safety Data Sheet

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

	 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. 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 Tactile warning	: Not applicable : 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

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	0.9 - 2.4	Repr. 2, H361d
Methyl-1H-benzotriazole	(CAS-No.) 29385-43-1 (EC-No.) 249-596-6 (REACH-no) 01-2119979081-35	0.06 - 0.15	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411

Comments

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

Full text of H-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	:	Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	:	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 effe	ects	, 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.
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.

Safety Data Sheet

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

SECTION 5: Firefighting	measures		
5.1. Extinguishing media			
Suitable extinguishing media	· Water spray Dry po	vder. Foam. Carbon dioxide.	
Unsuitable extinguishing media	: Do not use a heavy		
	ng from the substance or mixture	evaluation de not broothe fumes	
Fire hazard		explosion do not breathe fumes.	
Hazardous decomposition production fire	cts in case of : Toxic fumes may be		
5.3. Advice for firefighters			
Precautionary measures fire		nate all ignition sources if safe to do so.	
Protection during firefighting	: Do not attempt to tak apparatus. Complete	e action without suitable protective equipment. Self-contained breathing protective clothing.	
Other information	: On exposure to high	temperature, may decompose, releasing toxic gases.	
SECTION 6: Accidental r			
6.1. Personal precautions	, protective equipment and emergenc	y procedures	
6.1.1. For non-emergency p	ersonnel		
Emergency procedures	: Ventilate spillage are	a. Do not breathe vapours, mist. Avoid contact with skin and eyes.	
6.1.2. For emergency respo	nders		
Protective equipment	: Do not attempt to tak	e action without suitable protective equipment. For further information posure controls/personal protection".	
Emergency procedures		release. Cover spill with non combustible material, e.g.: sand/earth.	
	Prevent from entering	Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Evacuate unnecessary personnel.	
6.2. Environmental precau	Itions		
Avoid release to the environment			
6.3. Methods and material	l for containment and cleaning up		
For containment	: Collect spillage.		
Methods for cleaning up	: Take up liquid spill in	to absorbent material.	
Other information	: Dispose of materials	or solid residues at an authorized site.	
6.4. Reference to other se	ctions		
For further information refer to se	ction 13.		
SECTION 7: Handling and	d storage		
7.1. Precautions for safe h	nandling		
Precautions for safe handling	0	ion of the work station. Wear personal protective equipment. Avoid nist. Avoid contact with skin and eyes.	
Hygiene measures	: Do not eat, drink or s product.	moke when using this product. Always wash hands after handling the	
7.2. Conditions for safe st	torage, including any incompatibilities	;	
Storage conditions	: Store in a well-ventil	ated place. Keep cool.	
Incompatible products	: Oxidizing agent.		
Incompatible materials : Sources of ignition.			
7.3. Specific end use(s)			
Product information.			
SECTION 8: Exposure co	ontrols/personal protection		
8.1. Control parameters			
ethanediol, ethylene glycol (1	07-21-1)		
EU	Local name	Ethylene glycol	
		52 mg/m ³	
EU	IOELV TWA (mg/m ³)	52 119/11	
	IOELV TWA (mg/m²)	20 ppm	
EU			

EU

Skin

Notes

Safety Data Sheet

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

ethanediol, ethylene glycol (107-21-1)	
DNEL/DMEL (Workers)	
Long-term - local effects, dermal	106 mg/cm ²
	35 mg/m ³
Long-term - local effects, inhalation	55 Hig/III-
DNEL/DMEL (General population)	
Long-term - systemic effects, dermal	53 mg/kg bodyweight/day
Long-term - local effects, inhalation	7 mg/m³
PNEC (Water)	10 mm/l
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	

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



Safety Data Sheet

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

Environmental exposure controls:

Avoid release to the environment.

Avoid release to the environment.	
SECTION 9: Physical and chemical	I properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Colour	: Blue.
Odour	: slight.
Odour threshold	: No data available
pН	: No data available
pH solution	: 8.4 @ 50%
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: -13 °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	: 20 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 reactivit	t v
10.1. Reactivity	
The product is non-reactive under normal cond	litions 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 of	
-	
10.4. Conditions to avoid None under recommended storage and handli	na conditions (see section 7)
-	
10.5.Incompatible materialsOxidizing agent. Strong acids. Strong bases.	
10.6. Hazardous decomposition produc	ts
	azardous decomposition products should not be produced.
SECTION 11: Toxicological information	ation
11.1. Information on toxicological effec	
Acute toxicity	: Oral: Harmful if swallowed.
ATE CLP (oral)	512.033 mg/kg bodyweight

Safety Data Sheet

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

ethanediol, ethylene glycol (107-21-1)	
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)
Aspiration hazard	: Not classified

-

SECTION 12: Ecological informatic	n and a second
12.1. Toxicity	
Ecology - 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)	

ethanediol, ethylene glycol (107-21-1)		
LC50 fish 1	>= 40761 mg/I (OECD 203 method)	
LC50 fish 2	>= 72860 mg/I (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)	
EC50 Daphnia 2	55 mg/l (OECD 202 method)	

12.2. Persistence and degradability		
Prista ANTIFREEZE-concentrate		
Persistence and degradability	Readily biodegradable.	
ethanediol, ethylene glycol (107-21-1)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	> 94 % (OECD 301B method)	
Methyl-1H-benzotriazole (29385-43-1)		
Persistence and degradability	Readily biodegradable.	

Safety Data Sheet

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

Methyl-1H-benzotriazole (29385-43-1)		
Biodegradation	> 85 % (OECD 302B method)	
12.3. Bioaccumulative potential	2.3. Bioaccumulative potential	
Prista ANTIFREEZE-concentrate		
Log Kow -1.36 not bioaccumulable		
ethanediol, ethylene glycol (107-21-1)		
Log Kow	-1.36 not bioaccumulable	
Bioaccumulative potential	not bioaccumulable.	
Methyl-1H-benzotriazole (29385-43-1)		
BCF fish 1	0	
BCF fish 2	2.4 l/kg	
12.4. Mobility in soil		

No additional information available

12.5. Results of PBT and vPvB assessment		
Prista ANTIFREEZE-concentrate		
PBT: not relevant – no registration required		
vPvB: not relevant – no registration required		
Component		
ethanediol, ethylene glycol (107-21-1) 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

14.1. UN number		
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	
IMDG		
Transport hazard class(es) (IMDG)	: Not regulated	
1474		
	. Not regulated	
Transport hazard class(es) (IATA)	: Not regulated	
ADN		

Safety Data Sheet

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

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-concentrate - 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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Exposure controls/personal protection.

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	

Safety Data Sheet

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

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
ΙΑΤΑ	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
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
Data sources	· REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

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.
 Normal use of this product shall imply use in accordance with the instructions on the packaging.

Training advice Other information

Full text of H- and EUH-statements:

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

: None.

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