



Trade name: AVISTA peer EVO GL5 SAE 85W-90

Substance number

Version: 6 / WORLD

Date revised: 07.07.2023

Replaces Version: 5 / WORLD

Print date: 07.07.23

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

### **1.1. Product identifier**

AVISTA peer EVO GL5 SAE 85W-90

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

#### **Use of the substance/preparation**

Gear oil

#### **Uses advised against**

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

#### **Address/Manufacturer**

AVISTA OIL Deutschland GmbH

Bahnhofstr. 82

31311 Uetze

Telephone no. + 495177 / 85 - 0

Information provided productmanagement (+49 5177 / 85 - 178 or 171)

by / telephone

E-mail address of msds@avista-oil.de

person responsible

for this SDS

### **1.4. Emergency telephone number**

CHEMTREC: +1-703-527-3887 (worldwide, 24h a day / 7 days a week)

+43 1 3649237 (Austria)

+32 2 808 32 37 (Belgium)

+359 32 570 104 (Bulgaria)

+420 228 880 039 (Czech Republic)

+45 69 91 85 73 (Denmark)

+49 69 643508409 (Germany)

+972 3-763-0639 (Israel)

+371 66 165 504 (Latvia)

+370 5 214 0238 (Lithuania)

+60 3-9212 5794 (Malaysia)

+389 2 551 7456 (Macedonia)

+31 85 888 0596 (The Netherlands)

+48 22 398 80 29 (Poland)

+40 376 300 026 (Romania)

+8 (800) 100-63-46 (Russia)

+46 8 525 034 03 (Sweden)

+386 1 888 80 16 (Slovenia)

+886 2 7741 4207 (Taiwan)

+380 94 710 1374 (Ukraine)

+36 1 808 8425 (Hungary)

## **SECTION 2: Hazards identification**

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

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

### **2.2. Label elements**



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**Labelling according to regulation (EC) No 1272/2008**

EUH208 Contains Reaction products of 4-methylo-2-pentanol and diphosphorus pentasulfide, propoxylated, esterfied with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl, Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs., May produce an allergic reaction.

**2.3. Other hazards**

Product can form a film on the water surface that can prevent oxygen exchange. Refer to section 11, 12 and 15.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008)****Reaction products of 4-methylo-2-pentanol and diphosphorus pentasulfide, propoxylated, esterfied with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl**

EINECS no.	931-384-6			
Registration no.	01-2119493620-38			
Concentration	>= 1	<	2,5	%
Classification (Regulation (EC) No. 1272/2008)				
	Eye Irrit. 2		H319	
	Acute Tox. 4		H302	
	Skin Sens. 1B		H317	
	Aquatic Chronic 2		H411	

## Concentration limits (Regulation (EC) No. 1272/2008)

	Skin Sens. 1B	H317	>	9,39	%
	Eye Irrit. 2	H319		50,01	%
cATpE	oral			500	mg/kg

**(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines**

CAS No.	1213789-63-9			
EINECS no.	627-034-4			
Registration no.	01-2119473797-19			
Concentration	>= 0,25	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Eye Dam. 1		H318	
	Aquatic Acute 1		H400	
	Aquatic Chronic 1		H410	
	Asp. Tox. 1		H304	
	Skin Corr. 1B		H314	
	STOT RE 2		H373	
	STOT SE 3		H335	
	Acute Tox. 4		H302	

## Concentration limits (Regulation (EC) No. 1272/2008)

	Aquatic Acute 1	H400	M = 10
	Aquatic Chronic 1	H410	M = 10

**Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.**

EINECS no.	939-460-0			
Registration no.	01-2119971727-23			
Concentration	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Eye Dam. 1		H318	
	Skin Irrit. 2		H315	
	Skin Sens. 1B		H317	



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Aquatic Chronic 3 H412

**Supplemental information**

The substance is contained in the Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

**Other information**

Test data shows that the contained (Z) -octadec-9-enylamine, C16-18 (even numbered, saturated and unsaturated) alkylamines do not lead to a classification of the product as "Aquatic Chronic 2". All concentrations are units of weight percent for liquids, and unit of volume percent for gaseous products. Other substances that are not classified to be hazardous, up to 100%. Complete text of hazard statements in chapter 16 Mixtures are not subject to registration. The registration numbers of the ingredients in this mixture (if present) have been listed in item 3.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of persistent symptoms consult doctor. Remove soiled or soaked clothing immediately, do not allow to dry. Never give anything by mouth to an unconscious person.

**After inhalation**

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

**After skin contact**

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists. Remove contaminated clothing.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam, Dry powder, Carbon dioxide, Water spray jet

**Non suitable extinguishing media**

Full water jet

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

In the event of fire the following can be released: Pyrolysis products; Hydrocarbons; Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Hydrogen sulfide (H<sub>2</sub>S); Nitrogen oxides (NO<sub>x</sub>); Phosphorus oxides; Smoke.

**5.3. Advice for firefighters**



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**Special protective equipment for fire-fighting**

In case of combustion use a suitable breathing apparatus. Wear full protective suit. Do not allow run-off from fire fighting to enter drains or water courses.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product. Avoid breathing vapours.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under Section 13 "Disposal".

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Avoid formation of oil dust. Hot product develops flammable vapours. Handle and open container with care. Avoid skin and eye contact.

**Advice on protection against fire and explosion**

Keep away from sources of heat and ignition. Do not smoke. Take action to prevent static discharges.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value < 50 °C

**Requirements for storage rooms and vessels**

Keep only in original packaging.

**Hints on storage assembly**

Keep away from flammable substances.

**Storage class according to TRGS 510**

Storage class according to TRGS 510 10 Flammable liquids

**Further information on storage conditions**

Keep container tightly closed and dry. Keep in a cool place

**7.3. Specific end use(s)**

see product information

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values**

Distillates (petroleum), hydrotreated heavy paraffinic  
Type Önebel



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Value 5 mg/m<sup>3</sup>

Remarks: TWA

**Other information**

Contains no substances with occupational exposure limit values.

**8.2. Exposure controls****Exposure controls**

Technical measures for preventing exposition. Organisational measures for preventing exposition. Provide adequate ventilation. The type of personal protective equipment must be selected depending on the concentration and quantity of the hazardous substance at the workplace.

**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Store work clothing separately. Wash hands before breaks and after work. Cloths contaminated with product should not be kept in trouser pockets. Do not eat, drink or smoke during work time.

**Respiratory protection**

Not necessary, but do not inhale vapours. In situations where misting or flying may occur use appropriate certified respirators. Short term: filter apparatus, Filter A/P2

**Hand protection**

For this purpose, protective gloves are suitable, for instance, made by the company KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail: vertrieb@kcl.de with the following specification (tested as per EN374):

Camatril (Item No: 731; Material: Nitrile; Minimum layer thickness: 0.33 mm; Burst time: 480 min)

Dermatril (Item No: 740; Material: Nitrile; Minimum layer thickness: 0.11 mm; Burst time: 30 min)

The protective gloves to be used must comply with the specifications of the EU directive 89/686/EEC and the standard EN374 derived from it. The above mentioned burst times are based on laboratory measurements of KCL made as per EN 374 and are applicable only for this KCL product.

Preventive skin protection by protective skin ointment.

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Clothing as usual in the chemical industry. Protective gloves resistant to chemicals

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid	
<b>Colour</b>	light yellow to brownish	
<b>Odour</b>	characteristic	
<b>Melting point</b>		
Remarks	not determined	
<b>Freezing point</b>		
Remarks	not determined	
<b>Initial boiling point and boiling range</b>		
Value	> 320	°C
<b>Flammability (solid, gas)</b>		
Not applicable		
<b>Upper/lower flammability or explosive limits</b>		
Lower explosion limit	0,6	%(V)
Upper explosion limit	6,5	%(V)



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**Flash point**

Value	>= 210	°C
Method	DIN ISO 2592	

**Pour Point**

Value	-24	°C
Method	DIN/ISO 3016	

**Ignition temperature**

Remarks	not determined
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**Decomposition temperature**

Remarks	not determined
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**pH value**

Remarks	Not applicable
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**Viscosity****kinematic**

Value	167	mm <sup>2</sup> /s
Temperature	40	°C

**kinematic**

Value	16,2	mm <sup>2</sup> /s
Temperature	100	°C

**Solubility(ies)**

Remarks	virtually insoluble
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**Partition coefficient: n-octanol/water**

Remarks	not determined
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**Vapour pressure**

Remarks	not determined
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**Density**

Value	0,889	to	0,899	g/cm <sup>3</sup>
Temperature	15	°C		

**Vapour density**

Remarks	not determined
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**Particle characteristics**

Remarks	Not applicable
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**9.2. Other information****Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

**10.4. Conditions to avoid**



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Oxidising agents

**Decomposition temperature**

Remarks not determined

**10.6. Hazardous decomposition products**

Refer to section 5.3.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

**Acute dermal toxicity**

Remarks Based on available data, the classification criteria are not met.

**Acute inhalational toxicity**

Remarks Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Remarks	Based on available data, the classification criteria are not met.
Remarks	Frequent persistent contact with the skin can cause skin irritation.

**Serious eye damage/irritation**

Remarks Based on available data, the classification criteria are not met.

**Sensitization**

Remarks Based on available data, the classification criteria are not met.

**Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Remarks Based on available data, the classification criteria are not met.

**Carcinogenicity**

Remarks Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)**

Remarks Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product contains substances that have endocrine disrupting properties with respect to humans.

**Other information**

There are no data available on the mixture itself.

It was classified in accordance with the calculation method of the directive (EC) No. 1272/2008 [CLP].

**SECTION 12: Ecological information****12.1. Toxicity****General information**

There are no data available on the mixture itself. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.



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## 12.2. Persistence and degradability

### General information

There are no data available on the mixture itself.

### Biodegradability

Remarks

The product is not readily biodegradable according to OECD criteria but is inherently biodegradable.

## 12.3. Bioaccumulative potential

### General information

There are no data available on the mixture itself.

### Partition coefficient: n-octanol/water

Remarks

not determined

## 12.4. Mobility in soil

### General information

There are no data available on the mixture itself.

## 12.5. Results of PBT and vPvB assessment

### Evaluation of persistence and bioaccumulation potential

The product contains no PBT or vPvB substances.

## 12.6. Other adverse effects

### Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## 12.7. Other adverse effects

### General information / ecology

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code

13 02 05\*

mineral-based non-chlorinated engine, gear and lubricating oils

Dispose of as hazardous waste.

The waste code numbers/waste designations are to be assigned in accordance with EWC with reference to industrial fields and processes.

Dispose of waste according to applicable legislation.

#### Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Uncontaminated packaging may be taken for recycling.

Completely emptied packagings can be given for recycling.

## SECTION 14: Transport information

### Land transport ADR/RID

The product does not constitute a hazardous substance in land transport.

#### 14.1. UN number

UN -

#### 14.2. UN proper shipping name





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**14.3. Transport hazard class(es)**

Class -

**14.4. Packing group**

Packing group -

**14.5. Environmental hazards**

-

**Marine transport IMDG/GGVSee**

The product does not constitute a hazardous substance in sea transport.

**14.1. UN number**

UN -

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

Class -

**14.4. Packing group**

Packing group -

**Air transport ICAO/IATA**

The product does not constitute a hazardous substance in air transport.

**14.1. UN number**

UN -

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

Class -

**14.4. Packing group**

Packing group -

**14.5. Environmental hazards**

-

**Information for all modes of transport****14.6. Special precautions for user**

The relevant transport regulations have to be considered.

**Other information****14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

no

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Other information**

The product contains SVHC-substances

**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H302

Harmful if swallowed.

H304

May be fatal if swallowed and enters airways.

H314

Causes severe skin burns and eye damage.



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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

### CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1B	Skin sensitization, Category 1B
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.