

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**AVISTA peer EVO GL4 SAE 85W-90**

Revision date: 03.07.2023

Product code: 150137

Page 1 of 10

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

AVISTA peer EVO GL4 SAE 85W-90

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

Gear oil

**Uses advised against**

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

Company name: AVISTA OIL Deutschland GmbH  
Street: Bahnhofstraße 82  
Place: D-31311 Dollbergen  
Telephone: +49 5177-850  
E-mail: msds@avista-oil.de  
Contact person: Product management

Telephone: +49 5177-178 (Only available during office hours.)

E-mail: msds@avista-oil.de

Internet: www.avista-oil.de

**1.4. Emergency telephone number:**

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

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

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

**2.2. Label elements****Regulation (EC) No 1272/2008****Special labelling of certain mixtures**

EUH208 Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, 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**

Endocrine disrupting properties: Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs..

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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**AVISTA peer EVO GL4 SAE 85W-90**

Revision date: 03.07.2023

Product code: 150137

Page 2 of 10

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
---	Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl			1 - < 5 %
	931-384-6		01-2119493620-38	
	Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H302 H319 H317 H411			
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines			< 1 %
	627-034-4		01-2119473797-19	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H335 H373 H304 H400 H410			
1471311-26-8	Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.			< 1 %
	939-460-0		01-2119971727-23	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1B, Aquatic Chronic 3; H315 H318 H317 H412			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
---	931-384-6	Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	1 - < 5 %
	oral: LD50 = >2000 mg/kg Eye Irrit. 2; H319: >= 50 - 100 Skin Sens. 1B; H317: >= 9,39 - 100		
1213789-63-9	627-034-4	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	< 1 %
	oral: ATE = 500 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10		

**Further Information**

The mineral oils in the product contain less than 3 % DMSO extract (IP 346).

Test data shows that the contained C16-18 (even numbered, saturated and unsaturated) alkylamines do not lead to a classification of the product as "Aquatic Chronic 2".

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

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.

Get medical advice/attention if you feel unwell.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**AVISTA peer EVO GL4 SAE 85W-90**

Revision date: 03.07.2023

Product code: 150137

Page 3 of 10

apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

**After ingestion**

Do NOT induce vomiting. Call a physician immediately.  
Observe risk of aspiration if vomiting occurs.

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

No known symptoms to date.

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

First aider: Pay attention to self-protection!

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

Foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water spray jet.

**Unsuitable extinguishing media**

Full water jet

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

The formation of combustible vapours is possible at temperatures above: Flash point.

In case of fire may be liberated:

Hydrocarbons, Pyrolysis products, toxic, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Hydrogen sulphide (H<sub>2</sub>S), Nitrogen oxides (NO<sub>x</sub>), Phosphorus oxides.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Wear full chemical protective clothing.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**Additional information**

B (Fires of liquids or liquid turning substances)

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

Provide adequate ventilation. Special danger of slipping by leaking/spilling product. Conditions to avoid:

Inhalation. Keep away from sources of ignition - No smoking. Avoid contact with eyes and skin.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### AVISTA peer EVO GL4 SAE 85W-90

Revision date: 03.07.2023

Product code: 150137

Page 4 of 10

#### Advice on safe handling

All work processes must always be designed so that the following is excluded: Generation/formation of mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handle and open container with care.

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.

#### Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Do not put any product-impregnated cleaning rags into your trouser pockets. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. When using do not eat, drink or smoke. Separate storage of work clothes.

#### Further information on handling

The formation of combustible vapours is possible at temperatures above: Flash point

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

##### Requirements for storage rooms and vessels

Keep/Store only in original container.

##### Hints on joint storage

Keep away from: Oxidising agent, strong

##### Further information on storage conditions

Do not expose to temperatures above 50 °C.  
Keep container tightly closed in a cool, well-ventilated place.

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

see product information

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines			
	Worker DNEL, long-term	dermal	systemic	0,09
	Consumer DNEL, long-term	oral	systemic	0,04

##### PNEC values

CAS No	Name of agent	Value
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	
	Environmental compartment	
	Freshwater	0,0026 mg/l

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

##### Individual protection measures, such as personal protective equipment

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### AVISTA peer EVO GL4 SAE 85W-90

Revision date: 03.07.2023

Product code: 150137

Page 5 of 10

#### Eye/face protection

Wear eye/face protection. EN 166

#### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Replace when worn.

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](mailto:vertrieb@kcl.de) with the following specification (tested as per EN374):

In case of full contact/spray contact:

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.

#### Skin protection

The type of personal protective equipment must be selected depending on the concentration and quantity of the hazardous substance at the workplace. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Chemical resistant safety shoes

#### Respiratory protection

Generation/formation of mist: Filtering device with filter or ventilator filtering device of type:A2 P2

#### Environmental exposure controls

Technical measures for preventing exposition

Organisational measures for preventing exposition

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	yellow,brown
Odour:	characteristic

#### Test method

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	not determined
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	6,5 vol. %
Flash point:	>200 °C DIN ISO 2592
Auto-ignition temperature:	not determined
Decomposition temperature:	not applicable
pH-Value:	not applicable
Viscosity / kinematic: (at 40 °C)	173 mm <sup>2</sup> /s ASTM D7279
Water solubility:	practically insoluble
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### AVISTA peer EVO GL4 SAE 85W-90

Revision date: 03.07.2023

Product code: 150137

Page 6 of 10

Vapour pressure:	not determined
Density (at 15 °C):	0,87-0,91 g/cm <sup>3</sup> DIN EN ISO 12185
Relative vapour density:	not determined
Particle characteristics:	not applicable

#### 9.2. Other information

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

Explosive properties  
No data available

##### Other safety characteristics

Pour point: <-21 °C ASTM D7346

##### Further Information

none

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

#### 10.4. Conditions to avoid

Oxidising agent, strong

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

Refer to section 5.3.

### SECTION 11: Toxicological information

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

##### Acute toxicity

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

##### ATEmix calculated

ATE (oral) 50000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
---	Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl				
	oral	LD50 >2000 mg/kg	Rat		
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines				
	oral	ATE 500 mg/kg			

##### Irritation and corrosivity

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**AVISTA peer EVO GL4 SAE 85W-90**

Revision date: 03.07.2023

Product code: 150137

Page 7 of 10

**Sensitising effects**

Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified 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. Frequently or prolonged contact with skin may cause dermal irritation.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

There are no data available on the preparation/mixture itself.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Further information**

There are no data available on the preparation/mixture itself.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Reference to other sections: 2, 3

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

There are no data available on the preparation/mixture itself.

**12.2. Persistence and degradability**

There are no data available on the preparation/mixture itself.

Not readily biodegradable (according to OECD criteria). Data apply to the main component.

**12.3. Bioaccumulative potential**

There are no data available on the preparation/mixture itself.

**12.4. Mobility in soil**

There are no data available on the preparation/mixture itself.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

Endocrine disrupting properties: Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs..

**12.7. Other adverse effects**

Do not allow uncontrolled discharge of product into the environment.

**Further information**

There are no data available on the preparation/mixture itself.

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### AVISTA peer EVO GL4 SAE 85W-90

Revision date: 03.07.2023

Product code: 150137

Page 8 of 10

#### Disposal recommendations

The allocation of waste code numbers/ descriptions shall be carried out in accordance with the List of Wastes Resolution 2000/532/EC on an industry- and process-specific basis.

#### List of Wastes Code - residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

#### List of Wastes Code - used product

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Packaging containing oil is classified as packaging of pollutant-containing products. They are therefore not subject to collection by nationwide packaging take-back systems.

Oil packaging that has been emptied down to the residues that usually remain in it is subject to take-back by manufacturers and distributors.

Recommendation for disposal: Contacting the supplier / contractual partner.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### AVISTA peer EVO GL4 SAE 85W-90

Revision date: 03.07.2023

Product code: 150137

Page 9 of 10

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

Authorisations (REACH, annex XIV):

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

Restrictions on use (REACH, annex XVII):

Entry 75

#### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

#### Additional information

Observe in addition any national regulations!

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

#### Abbreviations and acronyms

Acute Tox: Acute toxicity

Asp. Tox: Aspiration hazard

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

#### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
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.
EUH208	Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, 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.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### AVISTA peer EVO GL4 SAE 85W-90

Revision date: 03.07.2023

Product code: 150137

Page 10 of 10

properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*