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

1.1. Product identifier

AVISTA peer EVO GL4 SAE 75W-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

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 by / telephone	productmanagement (+49 5177 / 85 - 178 or 171)
E-mail address of person responsible for this SDS	msds@avista-oil.de

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

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 %

ATE 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

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 R-phrases in Chapter 16 The registration numbers of the ingredients in this mixture (if present) have been listed in item 3. The mineral oils in the product contain less than 3% DMSO extract (IP 346).

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_2); Carbon monoxide (CO); Hydrogen sulfide (H_2S); Nitrogen oxides (NOx); Phosphorus oxides; Smoke.

5.3. Advice for firefighters

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

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 a re 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

Form	liquid		
Colour	light yellow to brownish		
Odour	characteristic		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Initial boiling point and boiling range			
Value	>	320	°C
Flammability (solid, gas)			
Not applicable			
Upper/lower flammability or explosive limits			
Lower explosion limit		0,6	%(V)
Upper explosion limit		6,5	%(V)
Flash point			
Value	>	200	°C
Method	DIN ISO 2592		
Pour Point			
Value		-42	°C
Method	DIN/ISO 3016		

Ignition temperature
Remarks: not determined

Decomposition temperature
Remarks: not determined

pH value
Remarks: Not applicable

Viscosity

kinematic

Value	93			mm²/s
Temperature	40	°C		

kinematic

Value	15,8			mm²/s
Temperature	100	°C		

Solubility(ies)
Remarks: virtually insoluble

Partition coefficient: n-octanol/water
Remarks: not determined

Vapour pressure
Remarks: not determined

Density

Value	0,870	to	0,880	g/cm³
Temperature	15	°C		

Vapour density
Remarks: not determined

Particle characteristics
Remarks: Not applicable

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
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 conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

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 persistance and bioaccumulation potential

The product contains no PBT or vPvB substances.

12.6. Other adverse effects

Endocrine disrupting properties with respect to the envrionment

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

-

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.
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.