

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 1 of 11

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

1.1. Product identifier

AVISTA peer GL5 LS SAE 80W-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

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
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P501 Dispose of containers/content in accordance with the legal regulations of the waste management.

Special labelling of certain mixtures

EUH208 Contains Amines, C10-14-tert-alkyl. 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 2 of 11

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified			1 - < 5 %
	265-158-7	649-468-00-3	01-2119487077-29	
	Asp. Tox. 1; H304			
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified			1 - < 5 %
	265-169-7	649-474-00-6	01-2119471299-27	
	Asp. Tox. 1; H304			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			1 - < 5 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304			
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified			1 - < 5 %
	265-159-2	649-469-00-9	01-2119480132-48	
	Asp. Tox. 1; H304			
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			
68955-53-3	Amines, C10-14-tert-alkyl			< 0.1 %
	701-175-2		01-2119456798-18	
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H302 H314 H318 H317 H400 H410			

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	
64742-65-0	265-169-7	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	1 - < 5 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	1 - < 5 %
		dermal: LD50 = >2000 mg/kg	
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	
68955-53-3	701-175-2	Amines, C10-14-tert-alkyl	< 0.1 %
		inhalation: LC50 = 1,19 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 251 mg/kg; oral: LD50 = 612 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	

Further Information

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".

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

SECTION 4: First aid measures

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 3 of 11

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 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 (CO₂), 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 (CO₂), Carbon monoxide, Hydrogen sulphide (H₂S), Nitrogen oxides (NO_x), 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 4 of 11

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****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**

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 5 of 11

DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified			
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	2,7 mg/m ³
Worker DNEL, long-term		inhalation	local	5,58 mg/m ³
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
Consumer DNEL, long-term		inhalation	local	1,2 mg/m ³
Worker DNEL, long-term		inhalation	local	5,6 mg/m ³
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
68955-53-3	Amines, C10-14-tert-alkyl			
Consumer DNEL, long-term		oral	systemic	0,35 mg/kg bw/day

PNEC values

CAS No	Name of agent	Environmental compartment	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified		
Secondary poisoning			9,33 mg/kg
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines		
Freshwater			0,0026 mg/l
68955-53-3	Amines, C10-14-tert-alkyl		
Freshwater			0,041 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
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 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)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 6 of 11

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:		>320 °C	
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)		130 mm ² /s	ASTM D7279
Water solubility:		practically insoluble	
Solubility in other solvents not determined			
Partition coefficient n-octanol/water:		not determined	
Vapour pressure:		not determined	
Density (at 15 °C):		0,87-0,91 g/cm ³	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
none

Other safety characteristics

Pour point: <-27 °C ASTM D7346

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 7 of 11

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) > 2000 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
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				
	dermal	LD50 >2000 mg/kg	Rabbit		
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines				
	oral	ATE 500 mg/kg			
68955-53-3	Amines, C10-14-tert-alkyl				
	oral	LD50 612 mg/kg	Rat		OECD 401
	dermal	LD50 251 mg/kg	Rat		OECD 402
	inhalation (4 h) vapour	LC50 1,19 mg/l	Rat		OECD 403
	inhalation dust/mist	ATE 0,05 mg/l			

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 8 of 11

Irritation and corrosivity

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

Sensitising effects

Contains Amines, C10-14-tert-alkyl. 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.

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Pimephales promelas	OECD 203	
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50 >10000 mg/l	48 h	Daphnia magna	OECD 202	
	Fish toxicity	NOEC >1000 mg/l	14 d	Oncorhynchus mykiss	QSAR	
	Crustacea toxicity	NOEC 10 mg/l	21 d	Daphnia magna	OECD 211	

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 9 of 11

12.6. Endocrine disrupting properties

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

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

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)

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 10 of 11

- 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**
not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):
Entry 3, Entry 28, Entry 75

National regulatory information

Water hazard class (D): 2 - obviously 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

Changes

This data sheet contains changes from the previous version in section(s): 2.

Abbreviations and acronyms

Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Corr: Skin corrosion
Eye Dam: Eye damage
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.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AVISTA peer GL5 LS SAE 80W-90

Revision date: 30.06.2023

Product code: 173406

Page 11 of 11

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Amines, C10-14-tert-alkyl. 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 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.)