

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### AVISTA peak EVO TO-4 SAE 10W

Revision date: 03.07.2023

Product code: 150219

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

##### 1.1. Product identifier

AVISTA peak EVO TO-4 SAE 10W

##### 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 Dihydro-3-(tetrapropenyl)furan-2,5-dion. 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 components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dion	< 0.1 %
	247-781-6	
	01-2119979080-37	
	Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 4; H319 H317 H413	

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

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
26544-38-7	247-781-6	Dihydro-3-(tetrapropenyl)furan-2,5-dion	< 0.1 %
		inhalation: LC50 = 5,3 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = 2900 mg/kg	

#### Further Information

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

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

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 (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.

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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****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**

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#### 8.1. Control parameters

##### DNEL/DMEL values

CAS No	Name of agent		
DNEL type	Exposure route	Effect	Value
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dion		
Worker DNEL, acute	dermal	systemic	1 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	0,33 mg/kg bw/day
Worker DNEL, long-term	dermal	local	10 mg/cm <sup>2</sup>

##### PNEC values

CAS No	Name of agent		
Environmental compartment	Value		
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dion		
Freshwater	0,02 mg/l		
Marine water	0,002 mg/l		
Freshwater sediment	1,7 mg/kg		
Soil	0,2 mg/kg		

##### 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](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

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#### 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:	brown	
Odour:	characteristic	
		<b>Test method</b>
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)	38,8 mm <sup>2</sup> /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):	0,84 - 0,88 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: <-30 °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

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#### 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
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dion				
	oral	LD50 2900 mg/kg	Rat		OECD 423
	dermal	LD50 >2000 mg/kg	Engine oil		
	inhalation (4 h) vapour	LC50 5,3 mg/l	Rat		

##### Irritation and corrosivity

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

##### Sensitising effects

Contains Dihydro-3-(tetrapropenyl)furan-2,5-dion. 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

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## 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
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dion					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		Engine oil OECD 203
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Fish toxicity	NOEC 100 mg/l		Oncorhynchus mykiss (Rainbow trout)		OECD 203

### 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.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dion				
	OECD 301D	9,9%	28		

### 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

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

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#### 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)

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

#### Inland waterways transport (ADN)

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

#### Marine transport (IMDG)

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

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

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

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#### 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

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Aquatic Chronic: Chronic aquatic hazard

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

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H413 May cause long lasting harmful effects to aquatic life.

EUH208 Contains Dihydro-3-(tetrapropenyl)furan-2,5-dion. 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.)*