

Trade name: LUKOIL AVANTGARDE

Current version : 5.0.0, issued: 20.02.2019

Replaced version: 4.0.1, issued: 18.07.2018

Region: GB

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

Trade name

LUKOIL AVANTGARDE**AVANTGARDE EXTRA 15W-40, AVANTGARDE ULTRA 15W-40,
AVANTGARDE M40, AVANTGARDE M30****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses of the substance or mixture

Motor oil

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**LUKOIL Marine Lubricants DMCC
c/o «LLK-INTERNATIONAL»
6, Malaya Yakimanka
119180 Moscow, Russia

Telephone no. +7-495-627 44 49

Fax no. +7-495-627 40 20

Information provided by / telephone

+7-495-627 44 49 (9:00 - 17:00)

Advice on Safety Data Sheet

sdb_info@umco.de

Supplier**Address**LUKOIL Marine Lubricants Germany GmbH
Alsterufer 20
20354 Hamburg

Telephone no. +49 40 180 4220 0

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

-

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Signal word

-

Hazard statement(s)

-

Hazard statements (EU)

EUH210 Safety data sheet available on request.

Precautionary statement(s)

-

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

Mixture (preparation)

Hazardous ingredients

| No | Substance name | | Additional information | |
|----|---|--|------------------------|--------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration | % |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | | | |
| | 93819-94-4 298-577-9 - 01-2119543726-33 | Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315 | < 2.50 | %-b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|---|------------------|--------------------|
| 1 | - | Skin Irrit. 2; H315: C \geq 6.25% Eye Irrit. 2; H319: C \geq 10% Eye Dam. 1; H318: C \geq 12.5% | - | - |

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

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Irregular breathing/no breathing: artificial respiration.

After skin contact

Wash off immediately with soap and water.

After eye contact

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

After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

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4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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

Foam; Extinguishing powder; Water spray jet; Carbon dioxide

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixtureIn the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)**5.3 Advice for firefighters**

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Prevent spread over a wide area (by containment with sand or earth). Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

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

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Do not inhale vapours.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed in a well-ventilated place. Protect from heat and direct sunlight. Keep in a cool place, heat causes increase in pressure and risk of bursting.

Requirements for storage rooms and vessels

Store product in closed containers. Storage rooms must be properly ventilated. Emptied containers may contain product residues and therefore must be handled with care.

Reuse only after appropriate cleaning. Never use pressure to empty : container is not a pressure vessel.

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Advice on storage assembly

Do not store together with: oxidizing agents; Acids

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

| No | Substance name | | | CAS / EC no | |
|----|--|---------------------|----------|-------------------------|-------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | | | 93819-94-4 298-577-9 | |
| | dermal | Long term (chronic) | systemic | 0.58 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 8.31 | mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no | |
|----|--|---------------------|----------|-------------------------|-------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | | | 93819-94-4 298-577-9 | |
| | oral | Long term (chronic) | systemic | 0.24 | mg/kg/day |
| | dermal | Long term (chronic) | systemic | 0.29 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 2.11 | mg/m ³ |

PNEC values

| No | Substance name | | CAS / EC no | |
|----|--|-----------------------|-------------------------|-------|
| | ecological compartment | Type | Value | |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | | 93819-94-4 298-577-9 | |
| | water | fresh water | 4.00 | µg/L |
| | water | marine water | 4.60 | µg/L |
| | water | Aqua intermittent | 21.00 | µg/L |
| | water | fresh water sediment | 0.0116 | mg/kg |
| | with reference to: dry weight | | | |
| | water | marine water sediment | 0.00116 | mg/kg |
| | with reference to: dry weight | | | |
| | soil | - | 0.00528 | mg/kg |
| | with reference to: dry weight | | | |
| | sewage treatment plant | - | 100.00 | mg/L |
| | secondary poisoning | - | 10.67 | mg/kg |
| | with reference to: food | | | |

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

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Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Other

Normal chemical work clothing. rubber boots

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|----------|
| Form/Colour | |
| liquid | |
| brownish yellow | |
| Odour | |
| specific | |
| Odour threshold | |
| No data available | |
| pH value | |
| No data available | |
| Boiling point / boiling range | |
| No data available | |
| Melting point / melting range | |
| No data available | |
| Decomposition point / decomposition range | |
| No data available | |
| Flash point | |
| Value | > 100 °C |
| Ignition temperature | |
| no data available | |

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| | | | |
|---|--|----------------|--------------------|
| Auto-ignition temperature | | | |
| No data available | | | |
| Oxidising properties | | | |
| No data available | | | |
| Explosive properties | | | |
| No data available | | | |
| Flammability (solid, gas) | | | |
| No data available | | | |
| Lower flammability or explosive limits | | | |
| No data available | | | |
| Upper flammability or explosive limits | | | |
| No data available | | | |
| Vapour pressure | | | |
| No data available | | | |
| Vapour density | | | |
| No data available | | | |
| Evaporation rate | | | |
| No data available | | | |
| Relative density | | | |
| No data available | | | |
| Density | | | |
| Value | 875 | - 890 | kg/m ³ |
| Reference temperature | | 20 | °C |
| Solubility in water | | | |
| Comments | insoluble | | |
| Solubility(ies) | | | |
| No data available | | | |
| Partition coefficient: n-octanol/water | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| log Pow | 0.59 | - 1.20 | |
| Reference temperature | | 23 | °C |
| Method | OECD 107 | | |
| Source | ECHA | | |
| Viscosity | | | |
| Value | 75 | - 105 | mm ² /s |
| Reference temperature | | 40 | °C |
| Type | kinematic | | |

9.2 Other information

| |
|--------------------------|
| Other information |
| No data available. |

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Acute oral toxicity | | | |
|---------------------|--|------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| LD50 | | 2600 | mg/kg bodyweight |
| Species | rat | | |
| Source | ECHA | | |

| Acute dermal toxicity | | | |
|-----------------------|--|------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| LD50 | | > 3160 | mg/kg bodyweight |
| Species | rabbit | | |
| Method | OECD 402 | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|--|--|--|
| No data available | | | |

| Skin corrosion/irritation | | | |
|---------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| Duration of exposure | | 4 | h |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | irritant | | |

| Serious eye damage/irritation | | | |
|-------------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| Species | rabbit | | |
| Method | 16 CFR 1500.42 | | |
| Source | ECHA | | |
| Evaluation | strongly irritant | | |

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| Respiratory or skin sensitisation | | | |
|-----------------------------------|--|-----------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| Route of exposure | | Skin | |
| Species | | guinea pig | |
| Method | | OECD 406 | |
| Source | | ECHA | |
| Evaluation | | non-sensitizing | |

| Germ cell mutagenicity | | | |
|---------------------------|--|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Reproduction toxicity | | | |
|---------------------------|--|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Carcinogenicity | | | |
|-------------------|--|--|--|
| No data available | | | |

| STOT - single exposure | | | |
|------------------------|--|--|--|
| No data available | | | |

| STOT - repeated exposure | | | |
|--------------------------|--|--|--|
| No data available | | | |

| Aspiration hazard | | | |
|-------------------|--|--|--|
| No data available | | | |

| Delayed and immediate effects as well as chronic effects from short and long-term exposure | | | |
|--|--|--|--|
| Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may cause slight irritation. Inhalation of vapours from the heated product can cause irritation of the respiratory tract and the eyes. | | | |

SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | |
|--------------------------|--|---------------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| LL50 | | 4.5 | mg/l |
| Duration of exposure | | 96 | h |
| Species | | Oncorhynchus mykiss | |
| Method | | OECD 203 | |
| Source | | ECHA | |

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| Toxicity to fish (chronic) | | | |
|----------------------------|--|--|--|
| No data available | | | |

| Toxicity to Daphnia (acute) | | | |
|-----------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| EC50 | | 5.4 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | OECD 202 | | |
| Source | ECHA | | |

| Toxicity to Daphnia (chronic) | | | |
|-------------------------------|--|--|--|
| No data available | | | |

| Toxicity to algae (acute) | | | |
|---------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| EC50 | | 2.1 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Selenastrum capricornutum | | |
| Method | OECD 201 | | |
| Source | ECHA | | |

| Toxicity to algae (chronic) | | | |
|-----------------------------|--|--|--|
| No data available | | | |

| Bacteria toxicity | | | |
|-------------------|--|--|--|
| No data available | | | |

12.2 Persistence and degradability

| Biodegradability | | | |
|------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| Type | aerobic biodegradation | | |
| Value | | 1.5 | % |
| Duration | | 28 | day(s) |
| Method | OECD 301 B | | |
| Source | ECHA | | |
| Evaluation | not readily biodegradable | | |

12.3 Bioaccumulative potential

| Partition coefficient: n-octanol/water | | | |
|--|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 | 298-577-9 |
| log Pow | 0.59 | - | 1.20 |
| Reference temperature | | 23 | °C |
| Method | OECD 107 | | |
| Source | ECHA | | |

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12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information**Other information**

Do not discharge product unmonitored into the environment.

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

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

The product is not defined under national/international road, rail, sea and air dangerous goods transport regulations as a hazardous material:

national/international road - not restricted as per ADR

national/international rail - not restricted as per RID

national/international sea - not restricted as per IMDG

national/international air - not restricted as per IATA

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

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SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

National regulations

National chemical inventories

| | |
|------------------------------------|--------|
| EINECS/ELINCS (European Community) | listed |
| USA (TSCA) | listed |
| DSL/NDSL (Canada) | listed |
| ENCS (Japan) | listed |
| ECL (Korea) | listed |
| AICS (Australia) | listed |
| IECSC / NEPA (China) | listed |
| NZIoC (New Zealand) | listed |

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| | |
|------|--|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H411 | Toxic to aquatic life with long lasting effects. |

Department issuing safety data sheet

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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