



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.03.2021

Version number 1.8

Revision: 09.03.2021

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

- **Product identifier**
- **Trade name: Oilfino Varius G 550 80W-90**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Gearbox oil
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
oilfino Mineralöl GmbH  
Werkstr. 12  
D- 25497 Prisdorf  
info@oilfino.com  
Tel.: +49 (0) 4101 / 79900  
www.oilfino.com
- **Further information obtainable from:** Sales
- **Emergency telephone number:**  
Gift-Informationszentrum Nord (Göttingen)  
Telefon +49 (0)551-19240

### SECTION 2: Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Skin Sens. 1      H317 May cause an allergic skin reaction.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning

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· **Hazard-determining components of labelling:**

polysulfides, di-tert-Bu

Reaktionsprodukte von Bis (4-methyl-pentan-2-yl) dithiophosphorsäure mit Phosphoroxid, Propylenoxid und Amine, C12-14-Alkyl (verzweigt)

· **Hazard statements**

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

· **Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 68937-96-2	polysulfides, di-tert-Bu Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥2.5-≤10%
EC number: 931-384-6	Reaktionsprodukte von Bis (4-methyl-pentan-2-yl) dithiophosphorsäure mit Phosphoroxid, Propylenoxid und Amine, C12-14-Alkyl (verzweigt) Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limits: Eye Dam. 1; H318: C ≥ 50 % Eye Irrit. 2; H319: 10 % ≤ C < 50 % Skin Sens. 1; H317: C ≥ 10 %	≥2.5-<10%

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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:** Symptomatic treatment
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Sand  
Foam  
Water haze  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class (TRGS):** 10
- **Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**· DNELs****68937-96-2 polysulfides, di-tert-Bu**

Dermal	DNEL Long-term – dermal, systemic effects	3.33 mg/kg_bw/day (Worker) 1.66 mg/kg_bw/day (general public)
Inhalative	DNEL Long-term – inhalation, systemic effects	14.5 mg/m <sup>3</sup> /day (Worker)

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		2.6 mg/m <sup>3</sup> /day (general public)
<b>Reaktionsprodukte von Bis (4-methyl-pentan-2-yl) dithiophosphorsäure mit Phosphoroxid, Propylenoxid und Amine, C12-14-Alkyl (verzweigt)</b>		
Oral	DNEL Long-term - oral, systemic effects	0.25 mg/kg_bw/day (general public)
Dermal	DNEL Long-term – dermal, systemic effects	12.5 mg/kg_bw/day (Worker) 6.25 mg/kg_bw/day (general public)
Inhalative	DNEL Acute - dermal, local effects	0.024 mg/kg (general public)
	DNEL Long-term – inhalation, systemic effects	8.56 mg/m <sup>3</sup> /day (Worker) 2.2 mg/m <sup>3</sup> /day (general public)

· **PNECs**

<b>Reaktionsprodukte von Bis (4-methyl-pentan-2-yl) dithiophosphorsäure mit Phosphoroxid, Propylenoxid und Amine, C12-14-Alkyl (verzweigt)</b>	
PNEC short term, fresh water	0.001 mg/l (Aquatic organisms)
PNEC short term, sea water	0.0001 mg/l (Aquatic organisms)
PNEC short term, sewage plant	24.33 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	14.4 mg/kg (Aquatic organisms)
PNEC short term soil	10 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	1.44 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	0.085 mg/l (Aquatic organisms)

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Fluid

**Colour:** Clear

**Odour:** Characteristic

**Odour threshold:** Not determined.

**pH-value:** Not determined.

**Change in condition**

**Melting point/freezing point:** -27 °C

**Initial boiling point and boiling range:** Undetermined.

**Flash point:** 224 °C

**Flammability (solid, gas):** Not applicable.

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

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· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	0.898 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 40 °C:</b>	139 mm <sup>2</sup> /s
· <b>Solvent content:</b>	
<b>VOC (EC)</b>	0.00 %
<b>Solids content:</b>	0.0 %
· <b>Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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### SECTION 11: Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

**68937-96-2 polysulfides, di-tert-Bu**

Oral LD50 &gt;2,000 mg/kg (rat)

Dermal LD50 &gt;2,000 mg/kg (rat)

**Reaktionsprodukte von Bis (4-methyl-pentan-2-yl) dithiophosphorsäure mit Phosphoroxid, Propylenoxid und Amine, C12-14-Alkyl (verzweigt)**

Oral LD50 &gt;2,000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** 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.

### SECTION 12: Ecological information

- **Toxicity**

- **Aquatic toxicity:**

**68937-96-2 polysulfides, di-tert-Bu**

ErC (48h) 63 mg/l (Daphnia magna)

**Reaktionsprodukte von Bis (4-methyl-pentan-2-yl) dithiophosphorsäure mit Phosphoroxid, Propylenoxid und Amine, C12-14-Alkyl (verzweigt)**

LC50 (96h) mg/ltr. 8.5 mg/ltr (Fish, minnows)

ErC (72h) 6.4 mg/l (Pseudokirchneriella subcapitata)

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**· Persistence and degradability**

68937-96-2	polysulfides, di-tert-Bu	13 (28d) %
	Reaktionsprodukte von Bis (4-methylpentan-2-yl) dithiophosphorsäure mit Phosphoroxid, Propylenoxid und Amine, C12-14-Alkyl (verzweigt)	3,6 (28d) %
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	31(28d) %
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	31 (28d) %
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic	2-4 (28d) %

**· Behaviour in environmental systems:****· Bioaccumulative potential**

64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	>3,5
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**· Mobility in soil** No further relevant information available.**· Ecotoxicological effects:****· Remark:** Harmful to fish**· Additional ecological information:****· General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

**· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****· Waste treatment methods****· Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |   |                 |
|---|-----------------|
| · <b>UN-Number</b>  |                 |
| · <b>ADR, IMDG, IATA</b>  | not regulated   |
| · <b>UN proper shipping name</b>  |                 |
| · <b>ADR, IMDG, IATA</b>  | not regulated   |
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>  | not regulated   |
| · <b>Packing group</b>  |                 |
| · <b>ADR, IMDG, IATA</b>  | not regulated   |
| · <b>Environmental hazards:</b>   | Not applicable. |
| · <b>Special precautions for user</b>                                       | Not applicable. |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   | not regulated   |

**SECTION 15: Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **VOC (EU) 0.0 g/l**
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

**Disclaimer**

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

**Relevant phrases**

- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:** Environmental Protection Department**Contact:** MSDS authorized Person**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3