

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## GEAR LUBRICANT OIL TRIATHLON 80W - 20 L

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 18.11.2024  |
| 12.0    | 25.02.2025     | 10769832-00011 | Date of first issue: 11.06.2010 |

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

#### 1.1 Product identifier

Trade name : GEAR LUBRICANT OIL TRIATHLON 80W - 20 L  
Product code : 0897480003

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : Lubricants and lubricant additives, Hydraulic fluid  
Gear oil  
Professional use product  
Recommended restrictions : Not applicable  
on use

#### 1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG  
Reinhold-Würth-Str. 12-17  
74653 Künzelsau  
Telephone : +49 794015 0  
Telefax : +49 794015 10 00  
E-mail address of person  
responsible for the SDS : isi@wuerth.com

#### 1.4 Emergency telephone number

+49 (0)6132 – 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.

### Additional Labelling

EUH208 Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name   | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification   | Concentration<br>(% w/w) |
|---|---|--|--------------------------|
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | Not Assigned<br><br>01-2119493620-38                  | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>Skin Sens. 1B; H317<br>Aquatic Chronic 2;<br>H411<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: | >= 0,25 - < 1            |

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|   |                                  |  |                   |
|---|----------------------------------|--|-------------------|
| C16-18-(Even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9<br>01-2119473797-19 | 2.000 mg/kg<br>Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>STOT SE 3; H335<br>STOT RE 2; H373<br>(Liver, Immune system, Gastrointestinal tract)<br>Asp. Tox. 1; H304<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br><hr/> M-Factor (Acute aquatic toxicity): 10<br>M-Factor (Chronic aquatic toxicity): 10<br><hr/> Acute toxicity estimate<br><hr/> Acute oral toxicity: 1.689 mg/kg | $\geq 0,25 - < 1$ |
|---|----------------------------------|--|-------------------|

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Protection of first-aiders : No special precautions are necessary for first aid responders.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : May produce an allergic reaction.

#### 4.3 Indication of any immediate medical attention and special treatment needed

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Treatment : Treat symptomatically and supportively.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

#### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Avoid prolonged or repeated contact with skin.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Gases

Storage class (TRGS 510) : 10

### 7.3 Specific end use(s)

Specific use(s) : No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components  | CAS-No.  | Value type (Form of exposure) | Control parameters  | Basis       |
|---|--|-------------------------------|---------------------|-------------|
| Residual oils (petroleum), hydrotreated                   | 64742-57-0   | AGW (Vapour and aerosols)     | 5 mg/m <sup>3</sup> | DE TRGS 900 |
|   | Peak-limit: excursion factor (category): 4;(II)  |                               |                     |             |
|   | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                     |             |
| Distillates (petroleum), solvent refined heavy paraffinic | 64741-88-4   | AGW (Vapour and aerosols)     | 5 mg/m <sup>3</sup> | DE TRGS 900 |
|   | Peak-limit: excursion factor (category): 4;(II)  |                               |                     |             |
|   | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                     |             |

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name  | End Use   | Exposure routes | Potential health effects   | Value                   |
|---|-----------|-----------------|----------------------------|-------------------------|
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | Workers   | Inhalation      | Long-term systemic effects | 4,28 mg/m <sup>3</sup>  |
|   | Workers   | Skin contact    | Long-term systemic effects | 12,5 mg/kg bw/day       |
|   | Workers   | Skin contact    | Long-term local effects    | 0,16 mg/cm <sup>2</sup> |
|   | Workers   | Skin contact    | Acute local effects        | 0,16 mg/cm <sup>2</sup> |
|   | Consumers | Inhalation      | Long-term systemic effects | 1,09 mg/m <sup>3</sup>  |
|   | Consumers | Skin contact    | Long-term systemic effects | 6,25 mg/kg bw/day       |
|   | Consumers | Skin contact    | Long-term local effects    | 0,16 mg/cm <sup>2</sup> |
|   | Consumers | Skin contact    | Acute local effects        | 0,16 mg/cm <sup>2</sup> |
|   | Consumers | Ingestion       | Long-term systemic effects | 0,25 mg/kg bw/day       |
| C16-18-(Even numbered, saturated and unsaturated)-alkylamines   | Workers   | Inhalation      | Long-term systemic effects | 0,38 mg/m <sup>3</sup>  |

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|--|-----------|------------|----------------------------|-------------------------|
|  | Workers   | Inhalation | Long-term local effects    | 1 mg/m <sup>3</sup>     |
|  | Workers   | Inhalation | Acute local effects        | 1 mg/m <sup>3</sup>     |
|  | Consumers | Inhalation | Long-term systemic effects | 0,035 mg/m <sup>3</sup> |
|  | Consumers | Ingestion  | Long-term systemic effects | 0,04 mg/kg bw/day       |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name  | Environmental Compartment                                     | Value                           |
|---|---|---------------------------------|
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | Fresh water   | 2,4 µg/l                        |
|   | Marine water  | 0,00024 mg/l                    |
|   | Freshwater - intermittent                                     | 0,15 mg/l                       |
|   | Sewage treatment plant  | 24,33 mg/l                      |
|   | Fresh water sediment  | 0,0129 mg/kg dry weight (d.w.)  |
|   | Marine sediment   | 0,00129 mg/kg dry weight (d.w.) |
|   | Soil  | 0,0017 mg/kg dry weight (d.w.)  |
|   | Oral (Secondary Poisoning)                                    | 10 mg/kg food                   |
|   | Marine water - intermittent                                   | 15 µg/l                         |
|   | C16-18-(Even numbered, saturated and unsaturated)-alkylamines | Fresh water                     |
| Freshwater - intermittent   |   | 1,6 µg/l                        |
| Marine water  |   | 0,026 µg/l                      |
| Sewage treatment plant  |   | 550 µg/l                        |
| Fresh water sediment  |   | 3,76 mg/kg dry weight (d.w.)    |
| Marine sediment   |   | 0,376 mg/kg dry weight (d.w.)   |
| Soil  |   | 10 mg/kg dry weight (d.w.)      |
| Distillates (petroleum), solvent refined heavy paraffinic   | Oral (Secondary Poisoning)                                    | 9,33 mg/kg food                 |
| Residual oils (petroleum), hydrotreated   | Oral (Secondary Poisoning)                                    | 9,33 mg/kg food                 |

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye/face protection : Please follow all applicable local/national requirements when

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selecting protective measures for a specific workplace.

Wear the following personal protective equipment:

Safety glasses

Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Equipment should conform to DIN EN 166

### Hand protection

|                    |  |
|--------------------|--|
| Material           | : Nitrile rubber                         |
| Break through time | : $\geq$ 240 min                         |
| Glove thickness    | : $\geq$ 0,5 mm                          |
| Directive          | : Equipment should conform to DIN EN 374 |
| Wearing time       | : $\leq$ 120 min                         |

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Skin should be washed after contact.

|                        |   |
|------------------------|---|
| Respiratory protection | : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Equipment should conform to DIN EN 14387 |
| Filter type            | : Combined particulates and organic vapour type (A-P)   |

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                   |                     |
|-----------------------------------|---------------------|
| Physical state                    | : liquid            |
| Colour                            | : brown             |
| Odour                             | : characteristic    |
| Odour Threshold                   | : No data available |
| Melting point/freezing point      | : No data available |
| Initial boiling point and boiling | : No data available |



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range

|  |   |
|--|---|
| Flammability (solid, gas)                        | : Not applicable                              |
| Flammability (liquids)                           | : Ignitable (see flash point)                 |
| Upper explosion limit / Upper flammability limit | : No data available                           |
| Lower explosion limit / Lower flammability limit | : No data available                           |
| Flash point                                      | : 210 - 212 °C                                |
| Auto-ignition temperature                        | : No data available                           |
| Decomposition temperature                        | : No data available                           |
| pH   | : substance/mixture is non-soluble (in water) |
| Viscosity  |   |
| Viscosity, kinematic                             | : 96 - 142 mm <sup>2</sup> /s (40 °C)         |
|  | 11,4 - 14,3 mm <sup>2</sup> /s (100 °C)       |
| Solubility(ies)                                  |   |
| Water solubility                                 | : insoluble                                   |
| Partition coefficient: n-octanol/water           | : Not applicable                              |
| Vapour pressure                                  | : No data available                           |
| Density  | : 0,89 g/cm <sup>3</sup>                      |
| Relative vapour density                          | : No data available                           |

Particle characteristics

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Particle size : Not applicable

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

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### Components:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Acute oral toxicity : LD50 (Rat): 2.000 mg/kg

### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Acute oral toxicity : LD50 (Rat): 1.689 mg/kg  
Method: OECD Test Guideline 401

### **Skin corrosion/irritation**

Not classified based on available information.

### Components:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Species : Rabbit  
Result : No skin irritation

### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

### **Serious eye damage/eye irritation**

Not classified based on available information.

### Components:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Species : Rabbit  
Result : Irreversible effects on the eye

### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Result : Irreversible effects on the eye  
Remarks : Based on skin corrosivity.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

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### Respiratory sensitisation

Not classified based on available information.

#### Components:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : positive

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

#### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid ex-

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change  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative  
Remarks : Based on data from similar materials

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 421  
Result: negative

Effects on foetal development : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 421  
Result: negative

#### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

### **STOT - single exposure**

Not classified based on available information.

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### Components:

#### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Assessment : May cause respiratory irritation.

#### **STOT - repeated exposure**

Not classified based on available information.

### Components:

#### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Exposure routes : Ingestion  
Target Organs : Liver, Immune system, Gastrointestinal tract  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

#### **Repeated dose toxicity**

### Components:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Species : Rat  
NOAEL : 150 mg/kg  
LOAEL : 500 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days

#### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Species : Rat  
NOAEL : 3,25 mg/kg  
LOAEL : 12,5 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days  
Method : OECD Test Guideline 407

#### **Aspiration toxicity**

Not classified based on available information.

### Components:

#### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

- |  |   |  |
|--|---|--|
| Toxicity to fish   | : | LL50 (Pimephales promelas (fathead minnow)): 8,5 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EL50 (Daphnia magna (Water flea)): 91,4 mg/l<br>Exposure time: 48 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 202  |
| Toxicity to algae/aquatic plants                                       | : | EL50 (Pseudokirchneriella subcapitata (green algae)): 15 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 201<br><br>NOELR (Pseudokirchneriella subcapitata (green algae)): 3,3 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms   | : | EC50 (activated sludge): 2.433 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOELR: 0,12 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 211   |

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### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,11 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,011 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : ErC50 (Selenastrum capricornutum (green algae)): 0,04 mg/l  
plants Exposure time: 96 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox- : 10  
icity)

Toxicity to daphnia and other : NOEC: 0,013 mg/l  
aquatic invertebrates (Chron- Exposure time: 21 d  
ic toxicity) Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic : 10  
toxicity)

## 12.2 Persistence and degradability

### **Components:**

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 3,6 %  
Exposure time: 28 d

### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 66 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

## 12.3 Bioaccumulative potential

### **Components:**

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

:

Partition coefficient: n- : log Pow: > 4  
octanol/water Method: OECD Test Guideline 117



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### **C16-18-(Even numbered, saturated and unsaturated)-alkylamines:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): > 500  
Method: OECD Test Guideline 305  
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 7,5  
Remarks: Calculation

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.  
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:

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used product  
13 02 08\*, other engine, gear and lubricating oils

unused product  
13 02 08\*, other engine, gear and lubricating oils

uncleaned packagings  
15 01 10\*, packaging containing residues of or contaminated  
by hazardous substances

---

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |   |         |
|------|---|---------|
| ADN  | : | UN 3082 |
| ADR  | : | UN 3082 |
| RID  | : | UN 3082 |
| IMDG | : | UN 3082 |
| IATA | : | UN 3082 |

#### 14.2 UN proper shipping name

|      |   |   |
|------|---|---|
| ADN  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(C16-18-(Even numbered, saturated and unsaturated)-<br>alkylamines) |
| ADR  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(C16-18-(Even numbered, saturated and unsaturated)-<br>alkylamines) |
| RID  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(C16-18-(Even numbered, saturated and unsaturated)-<br>alkylamines) |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(C16-18-(Even numbered, saturated and unsaturated)-<br>alkylamines) |
| IATA | : | Environmentally hazardous substance, liquid, n.o.s.<br>(C16-18-(Even numbered, saturated and unsaturated)-<br>alkylamines)    |

#### 14.3 Transport hazard class(es)

|     | Class | Subsidiary risks |
|-----|-------|------------------|
| ADN | :     | 9                |
| ADR | :     | 9                |
| RID | :     | 9                |

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**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

#### ADN

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

#### ADR

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

#### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

#### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Passenger)

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Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Number on list 3

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

| E2 | ENVIRONMENTAL HAZARDS | Quantity 1 | Quantity 2 |
|----|-----------------------|------------|------------|
|    |                       | 200 t      | 500 t      |

Water hazard class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:  
Not applicable  
5.2.2: Inorganic substances in powdered form:  
Not applicable  
5.2.4: Inorganic substances in gaseous form:  
Not applicable  
5.2.5: Organic Substances:  
Not applicable  
5.2.7.1.1: Carcinogenic substance:  
Not applicable  
5.2.7.1.1: Quartz fine dust PM4:  
Not applicable  
5.2.7.1.1: Formaldehyde:  
Not applicable  
5.2.7.1.1: fibres:  
Not applicable  
5.2.7.1.2: Germ cell mutagens:  
Not applicable  
5.2.7.1.3: Substances toxic to reproduction:  
Not applicable  
5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:  
Not applicable

|| Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 2,72 %

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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### Full text of H-Statements

|      |  |
|------|--|
| H302 | : Harmful if swallowed.  |
| H304 | : May be fatal if swallowed and enters airways.                      |
| H314 | : Causes severe skin burns and eye damage.                           |
| H317 | : May cause an allergic skin reaction.                               |
| H318 | : Causes serious eye damage.   |
| 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.                   |

### Full text of other abbreviations

|                   |   |
|-------------------|---|
| Acute Tox.        | : Acute toxicity  |
| Aquatic Acute     | : Short-term (acute) aquatic hazard                       |
| Aquatic Chronic   | : Long-term (chronic) aquatic hazard                      |
| Asp. Tox.         | : Aspiration hazard                                       |
| Eye Dam.          | : Serious eye damage                                      |
| Skin Corr.        | : Skin corrosion  |
| Skin Sens.        | : Skin sensitisation                                      |
| STOT RE           | : Specific target organ toxicity - repeated exposure      |
| STOT SE           | : Specific target organ toxicity - single exposure        |
| DE TRGS 900       | : Germany. TRGS 900 - Occupational exposure limit values. |
| DE TRGS 900 / AGW | : Time Weighted Average                                   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous

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Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Aquatic Chronic 2                      H411

### Classification procedure:

Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN