

**TUNGREASE BS 1kg D-GB-F-I-E-PL Fett**

Print date: 22.11.2020

Product code: 11ACF13021G0010

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

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**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Lubricants, greases, release products

**1.3. Details of the supplier of the safety data sheet**

|               |                            |                                 |
|---------------|----------------------------|---------------------------------|
| Company name: | TUNAP GmbH & Co. KG        |                                 |
| Street:       | Bürgermeister-Seidl-Str. 2 |                                 |
| Place:        | D-82515 Wolfratshausen     |                                 |
| Telephone:    | +49 (0) 8171/1600 - 0      | Telefax: +49 (0) 8171/1600 - 40 |
| e-mail:       | sdb@tunap.com              |                                 |
| Internet:     | www.tunap.com              |                                 |

**1.4. Emergency telephone number:** +49 (0) 30 30 686 790 (Giftnotruf Berlin)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container according to the official regulations.

**Special labelling of certain mixtures**

EUH208 Contains Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate. May produce an allergic reaction.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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**Hazardous components**

| CAS No     | Chemical name   |          |                  | Quantity    |
|------------|---|----------|------------------|-------------|
|            | EC No   | Index No | REACH No         |             |
|            | GHS Classification  |          |                  |             |
|            | Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate |          |                  | 0.1 - < 1 % |
|            | 947-946-9   |          | 01-2120772600-59 |             |
|            | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 4; H315 H317 H413                                 |          |                  |             |
| 68937-41-7 | Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%]                                |          |                  | 0.1 - < 1 % |
|            | 273-066-3   |          | 01-2119535109-41 |             |
|            | Repr. 2, STOT RE 2, Aquatic Chronic 1; H361fd H373 H410   |          |                  |             |

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

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

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

**4.2. Most important symptoms and effects, both acute and delayed**

Headache, nausea, dizziness, fatigue, skin irritation

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

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

Water fog. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear personal protection equipment.

**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). Ensure all waste water is collected and treated via a waste water treatment plant.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

**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**

Observe instructions for use.  
Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.  
When using do not eat, drink, smoke, sniff.  
Wear personal protection equipment (refer to section 8).

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**Further information on handling**

Avoid contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Observe legal regulations and provisions.

**Hints on joint storage**

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

**Further information on storage conditions**

Store in a cool dry place. Observe legal regulations and provisions.

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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**DNEL/DMEL values**

| CAS No                   | Substance   |          |                         |
|--------------------------|---|----------|-------------------------|
| DNEL type                | Exposure route  | Effect   | Value                   |
|                          | Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate |          |                         |
| Worker DNEL, long-term   | inhalation  | systemic | 4,93 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   | dermal  | systemic | 1,4 mg/kg bw/day        |
| Consumer DNEL, long-term | inhalation  | systemic | 0,87 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | dermal  | systemic | 0,5 mg/kg bw/day        |
| Consumer DNEL, long-term | oral  | systemic | 0,5 mg/kg bw/day        |
| 68937-41-7               | Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%]                                |          |                         |
| Worker DNEL, long-term   | inhalation  | systemic | 0,145 mg/m <sup>3</sup> |
| Worker DNEL, acute       | inhalation  | systemic | 700 mg/m <sup>3</sup>   |
| Worker DNEL, long-term   | dermal  | systemic | 0,416 mg/kg bw/day      |
| Worker DNEL, acute       | dermal  | systemic | 2000 mg/kg bw/day       |
| Worker DNEL, acute       | dermal  | local    | 16 mg/cm <sup>2</sup>   |
| Consumer DNEL, acute     | inhalation  | systemic | 350 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term | dermal  | systemic | 0,208 mg/kg bw/day      |
| Consumer DNEL, acute     | dermal  | systemic | 100 mg/kg bw/day        |
| Consumer DNEL, acute     | dermal  | local    | 8 mg/cm <sup>2</sup>    |
| Consumer DNEL, long-term | oral  | systemic | 0,04 mg/kg bw/day       |
| Consumer DNEL, acute     | oral  | systemic | 50 mg/kg bw/day         |

**PNEC values**

| CAS No   | Substance  |  |
|--|--|--|
| Environmental compartment                        | Value  |  |
| 68937-41-7                                       | Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] |  |
| Freshwater                                       | 0 mg/l   |  |
| Freshwater (intermittent releases)               | 0,015 mg/l   |  |
| Marine water                                     | 0 mg/l   |  |
| Freshwater sediment                              | 0,185 mg/kg  |  |
| Marine sediment                                  | 0,018 mg/kg  |  |
| Secondary poisoning                              | 1,85 mg/kg   |  |
| Micro-organisms in sewage treatment plants (STP) | 100 mg/l   |  |
| Soil   | 2,5 mg/kg  |  |

**Additional advice on limit values**

- a no restriction
- b End of exposure or end of shift
- c at long term exposure: after several previous shifts
- d before next shift

blood (B)  
Urine (U)


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**8.2. Exposure controls**
**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Protective and hygiene measures**

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

**Eye/face protection**

Suitable eye protection: Tightly sealed safety glasses.

DIN EN 166

**Hand protection**

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min

Thickness of the glove material 0,45 mm

EN ISO 374

**Skin protection**

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..

Filtering device with filter or ventilator filtering device of type: A

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

**Environmental exposure controls**

Observe legal regulations and provisions.

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

|                 |                |
|-----------------|----------------|
| Physical state: | pasty          |
| Colour:         | opaque         |
| Odour:          | characteristic |

|                      | Test method              |
|----------------------|--------------------------|
| pH-Value (at 20 °C): | not applicable DIN 19268 |

**Changes in the physical state**

|  |                                 |
|--|---------------------------------|
| Melting point:                           | No information available.       |
| Initial boiling point and boiling range: | 250 °C                          |
| Sublimation point:                       | No information available.       |
| Softening point:                         | No information available.       |
| Flash point:                             | > 150 °C ISO 3679               |
| Lower explosion limits:                  | No information available.       |
| Upper explosion limits:                  | No information available.       |
| Ignition temperature:                    | > 200 °C                        |
| Vapour pressure:                         | No information available.       |
| Density (at 20 °C):                      | 0,9 g/cm <sup>3</sup> DIN 51757 |

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|                          |  |
|--------------------------|--|
| Water solubility:        | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Partition coefficient:   | No information available.  |
| Viscosity / dynamic:     | No information available. DIN 53019-1  |
| Flow time:<br>(at 20 °C) | No information available.  |
| Vapour density:          | No information available.  |
| Evaporation rate:        | No information available.  |
| Solvent separation test: | No information available.  |
| Solvent content:         | No information available.  |

**9.2. Other information**

|                |                           |
|----------------|---------------------------|
| Solid content: | No information available. |
|----------------|---------------------------|

**SECTION 10: Stability and reactivity****10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

**10.5. Incompatible materials**

Oxidizing agents. Pyrophoric or self-heating substances.

**10.6. Hazardous decomposition products**

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

**Further information**

Do not mix with other chemicals.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

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

| CAS No     | Chemical name  |                    |         |                     |
|------------|--|--------------------|---------|---------------------|
|            | Exposure route   | Dose               | Species | Source              |
| 68937-41-7 | Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] |                    |         |                     |
|            | oral   | LD50 > 5000 mg/kg  | Rat     |                     |
|            | dermal   | LD50 > 10000 mg/kg | Rabbit  | Study report (1976) |
|            | inhalation (1 h) aerosol   | LC50 > 200 mg/l    | Rat     |                     |


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**Irritation and corrosivity**

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

**Sensitising effects**

Contains Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate.  
May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.  
No indications of human carcinogenicity exist.  
No indications of human germ cell mutagenicity exist.  
No indications of human reproductive toxicity exist.

**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**

No information available.

**Additional information on tests**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**SECTION 12: Ecological information**
**12.1. Toxicity**

There are no data available on the mixture itself.

| CAS No     | Chemical name   |                  |           |   |                            |
|------------|---|------------------|-----------|---|----------------------------|
|            | Aquatic toxicity  | Dose             | [h]   [d] | Species   | Source                     |
|            | Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate |                  |           |   |                            |
|            | Acute algae toxicity  | ErC50 > 100 mg/l | 72 h      | Pseudokirchneriella subcapitata                     | REACH Registration Dossier |
|            | Acute bacteria toxicity   | (> 1000 mg/l)    | 3 h       | activated sludge of a predominantly domestic sewage | REACH Registration Dossier |
| 68937-41-7 | Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%]                                |                  |           |   |                            |
|            | Acute fish toxicity   | LC50 1,6 mg/l    | 96 h      | Oncorhynchus mykiss (Rainbow trout)                 | REACH Registration Dossier |
|            | Acute crustacea toxicity  | EC50 2.44 mg/l   | 48 h      | Daphnia magna                                       | REACH Registration Dossier |
|            | Fish toxicity   | NOEC 0,0031 mg/l | 33 d      | Pimephales promelas                                 | REACH Registration Dossier |
|            | Crustacea toxicity  | NOEC 0,0415 mg/l | 21 d      | Daphnia magna                                       | REACH Registration Dossier |
|            | Acute bacteria toxicity   | (> 1000 mg/l)    | 3 h       | activated sludge, domestic                          | REACH Registration Dossier |

**12.2. Persistence and degradability**

There are no data available on the mixture itself. AOX (mg/l): 0

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.



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#### Partition coefficient n-octanol/water

| CAS No     | Chemical name  | Log Pow        |
|------------|--|----------------|
| 68937-41-7 | Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] | 85000 - 150000 |

#### BCF

| CAS No     | Chemical name  | BCF | Species             | Source               |
|------------|--|-----|---------------------|----------------------|
| 68937-41-7 | Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] | 225 | Lepomis macrochirus | REACH Registration D |

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No information available.

#### Further information

Do not allow uncontrolled discharge of product into the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### List of Wastes Code - residues/unused products

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

##### List of Wastes Code - used product

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; 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

Water (with cleaning agent). Completely emptied packages can be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

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**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.  
Marine pollutant: no

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

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,9,10,11,12,14,15,16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized 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)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL (UK): Workplace Exposure Limits

TWA (EC): Time-Weighted Average

ATE: Acute Toxicity Estimate



according to Regulation (EC) No 1907/2006

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STEL (EC) Short Term Exposure Limit  
LC50: Lethal Concentration  
EC50: half maximal Effective Concentration  
ErC50: means EC50 in terms of reduction of growth rate

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

|        |   |
|--------|---|
| H315   | Causes skin irritation.   |
| H317   | May cause an allergic skin reaction.  |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child.  |
| H373   | May cause damage to organs through prolonged or repeated exposure.  |
| H410   | Very toxic to aquatic life with long lasting effects.   |
| H412   | Harmful to aquatic life with long lasting effects.  |
| H413   | May cause long lasting harmful effects to aquatic life.   |
| EUH208 | Contains Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate. May produce an allergic reaction. |

**Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]:  
Calculation method.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*