## Syngear SH 7680

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|---|---|---|---|
| 2.0 | 03.07.2026 | Date of first issue: 05.06.2023 | 03.07.2026 |

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

### 1.1 Product identifier

Product name : Syngear SH 7680

Article-No. : 340139

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

Use of the Substance/Mixture : Lubricating oil

Recommended restrictions on use : Restricted to professional users.

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

Company : Klüber Lubrication NA LP
9010 County Road 2120
Tyler, Texas 75707
USA
Phone: +1 903 534 8021
Fax: +1 903 581 4376
info@us.kluber.com

Klüber Lubrication NA LP
32 Industrial Drive
Londonderry, NH 03053
USA
Phone: +1 603 647 4104
Fax: +1 603 647 4106
info@us.kluber.com

E-mail address of person responsible for the SDS : klna-productstewardship@klueber.com

National contact :

### 1.4 Emergency telephone number

Emergency telephone number : +49 89 7876 700 (24 hrs)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**



a brand of FREUDENBERG

Not a hazardous substance or mixture.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Not a hazardous substance or mixture.

**Additional Labelling**

EUH210 Safety data sheet available on request.

EUH208 Contains Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-. 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Synthetic hydrocarbon oil
ester oil

**Components**

| Chemical name | CAS-No.<br>EC-No.<br><br>Index-No.<br>Registration number | Classification | specific concentration limit<br>M-Factor<br>Notes<br>Acute toxicity estimate | Concentration (% w/w) |
|---|---|---|---|---|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1<br>270-128-1 | Repr. 2; H361f<br>Aquatic Chronic 3; H412 | | >= 1 - < 2.5 |
| Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl- | 268567-32-4<br>434-070-2 | Eye Dam. 1; H318<br>Skin Sens. 1B; H317<br>Aquatic Chronic 3; H412 | | >= 0.25 - < 1 |

| | | | | |
|---|---|---|---|---|
| Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol | 947-696-0 | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Repr. 2; H361<br>STOT RE 2; H373 (Liver)<br>Aquatic Chronic 3; H412 | | >= 0.1 - < 0.25 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If inhaled : Obtain medical attention.
Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Take off all contaminated clothing immediately.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
Wash off immediately with plenty of water.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If eye irritation persists, consult a specialist.

If swallowed : Move the victim to fresh air.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
Do NOT induce vomiting.
Obtain medical attention.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.

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

Symptoms : No symptoms known or expected.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Do not breathe vapours or spray mist.
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.
Prevent further leakage or spillage if safe to do so.
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

| | | |
|---|---|---|
| Advice on safe handling | : | Do not breathe vapours or spray mist.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Wash hands and face before breaks and immediately after handling the product.<br>Do not get in eyes or mouth or on skin.<br>Do not get on skin or clothing.<br>Do not ingest.<br>Do not repack.<br>Do not re-use empty containers.<br>These safety instructions also apply to empty packaging which may still contain product residues.<br>Keep container closed when not in use. |
| Hygiene measures | : | Wash face, hands and any exposed skin thoroughly after handling. |

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

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers. |

### 7.3 Specific end use(s)

| | | |
|---|---|---|
| Specific use(s) | : | Specific instructions for handling, not required. |

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

Contains no substances with occupational exposure limit values.

**Derived No Effect Level (DNEL)**

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---|---|---|---|
| diisotridecyl adipate | Workers | Inhalation | Long-term systemic effects | 24 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 3.4 mg/kg bw/day |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Workers | Skin contact | Long-term systemic effects | 0.44 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 0.31 mg/m3 |
| Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl- | Workers | Inhalation | Long-term systemic effects | 4.4 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 4.4 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 1.25 mg/kg bw/day |
| Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol | Workers | Inhalation | Long-term systemic effects | 7 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 4 mg/kg bw/day |

**Predicted No Effect Concentration (PNEC)**

| Substance name | Environmental Compartment | Value |
|---|---|---|
| diisotridecyl adipate | Fresh water | 0.00004 mg/l |
| | Intermittent use/release | 1 mg/l |
| | Marine water | 0.000004 mg/l |
| | Intermittent use/release | 1 mg/l |
| | Sewage treatment plant | 48 mg/l |
| | Fresh water sediment | 40 mg/kg dry weight (d.w.) |
| | Marine sediment | 40 mg/kg dry weight (d.w.) |
| | Soil | 1 mg/kg dry weight (d.w.) |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Fresh water | 0.034 mg/l |
| | Marine water | 0.003 mg/l |
| | Microbiological Activity in Sewage Treatment Systems | 10 mg/l |
| | Fresh water sediment | 0.446 mg/kg |
| | Marine sediment | 0.045 mg/kg |
| | Soil | 1.76 mg/kg |

| | | |
|---|---|---|
| Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl- | Fresh water | 0.036 mg/l |
| | Intermittent use/release | 0.38 mg/l |
| | Marine water | 0.0036 mg/l |
| | Sewage treatment plant | 10 mg/l |
| | Fresh water sediment | 1.42 mg/kg dry weight (d.w.) |
| | Marine sediment | 0.142 mg/kg dry weight (d.w.) |
| | Soil | 0.496 mg/kg dry weight (d.w.) |
| Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol | Fresh water | 0.026 mg/l |
| | Marine water | 0.003 mg/l |
| | Microbiological Activity in Sewage Treatment Systems | 100 mg/l |
| | Fresh water sediment | 0.344 mg/kg |
| | Marine sediment | 0.034 mg/kg |
| | Soil | 0.053 mg/kg |

### 8.2 Exposure controls

**Engineering measures**

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal protective equipment**

Eye/face protection : Safety glasses with side-shields

Hand protection
- Material : Nitrile rubber
- Break through time : > 10 min
- Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type A-P

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environmental exposure controls**

Air : No special environmental precautions required.

Soil : The product should not be allowed to enter drains, water courses or the soil.

Water : The product should not be allowed to enter drains, water courses or the soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance

| | | |
|---|---|---|
| Physical state | : | liquid |
| Colour | : | yellow |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| pH | : | Not applicable |
| Melting point/ range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | >= 250 °C |
| Evaporation rate | : | No data available |
| Flammability | : | Flammability (solid, gas): Not applicable |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower | : | No data available |

flammability limit

| | | |
|---|---|---|
| Vapour pressure | : | < 0.001 hPa (20 °C) |
| Relative vapour density | : | No data available |
| Relative density | : | 0.871 (20 °C)<br>Reference substance: Water<br>The value is calculated |
| Density | : | 0.87 g/cm3<br>(20 °C) |
| Bulk density | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | insoluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | 680 mm2/s (40 °C) |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | No data available |

### 9.2 Other information

| | | |
|---|---|---|
| Sublimation point | : | No data available |
| Self-ignition | : | No data available |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

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

**Product:**

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Symptoms: Redness, Local irritation

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg
Method: OECD Test Guideline 420
GLP: yes

**Skin corrosion/irritation**

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

**Product:**

Remarks : This information is not available.

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

Species : Rabbit
Exposure time : 72 h
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

Species : reconstructed human epidermis (RhE)
Assessment : Irritating to skin.
Method : OECD Test Guideline 439
Result : Irritating to skin.
GLP : yes

**Serious eye damage/eye irritation**

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

**Product:**

Remarks : This information is not available.

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Assessment | : | No eye irritation |
| Method | : | OECD Test Guideline 405 |
| Result | : | No eye irritation |

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Assessment | : | Risk of serious damage to eyes. |
| Method | : | OECD Test Guideline 405 |
| Result | : | Risk of serious damage to eyes. |
| GLP | : | yes |

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

| | | |
|---|---|---|
| Species | : | Bovine cornea |
| Assessment | : | Risk of serious damage to eyes. |
| Method | : | OECD Test Guideline 437 |
| Result | : | Risk of serious damage to eyes. |
| GLP | : | yes |

**Respiratory or skin sensitisation**

**Skin sensitisation**

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

**Respiratory sensitisation**

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

**Product:**

| | | |
|---|---|---|
| Remarks | : | This information is not available. |

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

| | | |
|---|---|---|
| Species | : | Guinea pig |
| Assessment | : | Did not cause sensitisation on laboratory animals. |
| Method | : | OECD Test Guideline 406 |
| Result | : | Did not cause sensitisation on laboratory animals. |

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Test Type | : | Maximisation Test |
| Species | : | Guinea pig |
| Assessment | : | The product is a skin sensitiser, sub-category 1B. |
| Method | : | OECD Test Guideline 406 |
| Result | : | The product is a skin sensitiser, sub-category 1B. |
| GLP | : | yes |

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

| | | |
|---|---|---|
| Species | : | Guinea pig |
| Assessment | : | Does not cause skin sensitisation. |
| Method | : | OECD Test Guideline 406 |
| Result | : | Does not cause skin sensitisation. |
| GLP | : | yes |

**Germ cell mutagenicity**

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

**Product:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Remarks: No data available |
| Genotoxicity in vivo | : | Remarks: No data available |

**Components:**

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Germ cell mutagenicity-Assessment | : | Tests on bacterial or mammalian cell cultures did not show mutagenic effects. |

**Carcinogenicity**

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

**Product:**

| | | |
|---|---|---|
| Remarks | : | No data available |

**Reproductive toxicity**

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

**Product:**

| | | |
|---|---|---|
| Effects on fertility | : | Remarks: No data available |
| Effects on foetal development | : | Remarks: No data available |

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

| | | |
|---|---|---|
| Reproductive toxicity - Assessment | : | - Fertility -<br>Some evidence of adverse effects on sexual function and fertility, based on animal experiments. |

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Reproductive toxicity - Assessment | : | - Fertility -<br>No toxicity to reproduction<br>- Teratogenicity -<br>No effects on or via lactation |

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

| | | |
|---|---|---|
| Reproductive toxicity - Assessment | : | - Fertility -<br>Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments. |

**STOT - single exposure**

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

**Product:**

| | | |
|---|---|---|
| Remarks | : | No data available |

**STOT - repeated exposure**

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

**Product:**

| | | |
|---|---|---|
| Remarks | : | No data available |

**Components:**

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

| | | |
|---|---|---|
| Target Organs | : | Liver |
| Assessment | : | May cause damage to organs through prolonged or repeated exposure. |

**Repeated dose toxicity**

**Product:**

| | | |
|---|---|---|
| Remarks | : | This information is not available. |

**Components:**

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| NOAEL | : | 500 mg/kg |
| Application Route | : | oral (gavage) |
| Exposure time | : | 28 d |
| Control Group | : | yes |
| Method | : | OECD Test Guideline 407 |
| GLP | : | yes |
| | | |
| Species | : | Rat, male and female |
| NOAEL | : | 125 mg/kg |

| | | |
|---|---|---|
| Application Route | : | oral (gavage) |
| Exposure time | : | 90 d |
| Control Group | : | yes |
| Method | : | OECD Test Guideline 408 |
| GLP | : | yes |

**Aspiration toxicity**

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

**Product:**

This information is not available.

**Components:**

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

No aspiration toxicity classification

**Further information**

**Product:**

| | | |
|---|---|---|
| Remarks | : | Information given is based on data on the components and the toxicology of similar products. |

**Components:**

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Remarks | : | Information given is based on data on the components and the toxicology of similar products. |

## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

| | | |
|---|---|---|
| Toxicity to fish | : | Remarks: No data available |
| Toxicity to daphnia and other aquatic invertebrates | : | Remarks: No data available |
| Toxicity to algae/aquatic plants | : | Remarks: No data available |
| Toxicity to microorganisms | : | Remarks: No data available |

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): > 100 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 51 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201 |

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 : 38 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 : 53 mg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | EC50 : > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms | : | (activated sludge): > 100 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 3.6 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Test Type: semi-static test<br>Method: OECD Test Guideline 211 |

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 26.3 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 84.91 mg/l<br>Exposure time: 48 h<br>Test Type: Immobilization<br>Method: OECD Test Guideline 202 |

| | | |
|---|---|---|
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 59.6 mg/l<br>Exposure time: 72 h<br>Test Type: Growth inhibition<br>Method: OECD Test Guideline 201 |

**12.2 Persistence and degradability**

**Product:**

| | | |
|---|---|---|
| Biodegradability | : | Remarks: No data available |
| Physico-chemical removability | : | Remarks: No data available |

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

| | | |
|---|---|---|
| Biodegradability | : | Test Type: aerobic<br>Inoculum: activated sludge<br>Result: Not rapidly biodegradable<br>Biodegradation: 1 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301B<br>GLP: yes |

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Not readily biodegradable.<br>Biodegradation: < 10 %<br>Method: OECD Test Guideline 301B |

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Not rapidly biodegradable<br>Biodegradation: 0 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301B<br>GLP: yes |

**12.3 Bioaccumulative potential**

**Product:**

| | | |
|---|---|---|
| Bioaccumulation | : | Remarks: No data available |

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 5.2 - 10.82 |

**Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 3.9 (25 °C)<br>Method: OECD Test Guideline 107<br>GLP: yes |

**Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 1.84 |

### 12.4 Mobility in soil

**Product:**

| | | |
|---|---|---|
| Mobility | : | Remarks: No data available |
| Distribution among environmental compartments | : | Remarks: 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 Other adverse effects

**Product:**

| | | |
|---|---|---|
| Endocrine disrupting potential | : | This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher. |
| Additional ecological information | : | No information on ecology is available. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | | |
|---|---|---|
| Product | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not dispose of with domestic refuse.<br>Dispose of as hazardous waste in compliance with local and national regulations. |

| | | |
|---|---|---|
| Contaminated packaging | : | Packaging that is not properly emptied must be disposed of as the unused product.<br>Dispose of waste product or used containers according to local regulations. |
| Waste Code | : | unused product<br>13 02 06*, synthetic engine, gear and lubricating oils<br><br>uncleaned packagings<br>15 01 10*, packaging containing residues of or contaminated by hazardous substances |

## SECTION 14: Transport information

### 14.1 UN number

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |
| **RID** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |
| **IATA** | : | Not regulated as a dangerous good |

### 14.2 UN proper shipping name

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |
| **RID** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |
| **IATA** | : | Not regulated as a dangerous good |

### 14.3 Transport hazard class(es)

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |
| **RID** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |
| **IATA** | : | Not regulated as a dangerous good |

### 14.4 Packing group

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |
| **RID** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |
| **IATA (Cargo)** | : | Not regulated as a dangerous good |
| **IATA (Passenger)** | : | Not regulated as a dangerous good |

### 14.5 Environmental hazards

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |

| | | |
|---|---|---|
| **RID** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |

**14.6 Special precautions for user**

Not applicable

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

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**

Relevant EU provisions transposed through retained EU law

| | | |
|---|---|---|
| UK REACH List of restrictions (Annex 17) | : | Not applicable |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation (UK SVHC) | : | This product does not contain substances of very high concern (UK: The REACH etc. (Amendment) Regulations, Article 57). |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) (GB POPs) | : | Not applicable |
| Regulation (EU) No 2024/590 on substances that deplete the ozone layer (EC 2024/590) | : | Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) (UK. REACH Annex XIV) | : | Not applicable |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation (GB PIC) | : | Not applicable |
| The Control of Explosives Precursors and Poisons Regulations (Poisons Act, as amended) (GB Poisons Act) | | Not applicable |

| | |
|---|---|
| Control of Major Accident Hazards Regulations 2015 (COMAH) | Not applicable |

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Not applicable

**Other regulations:**

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

**Full text of H-Statements**

| | | |
|---|---|---|
| H302 | : | Harmful if swallowed. |
| H315 | : | Causes skin irritation. |
| H317 | : | May cause an allergic skin reaction. |
| H318 | : | Causes serious eye damage. |
| H361 | : | Suspected of damaging fertility or the unborn child. |
| H361f | : | Suspected of damaging fertility. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure. |
| H412 | : | Harmful to aquatic life with long lasting effects. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Eye Dam. | : | Serious eye damage |
| Repr. | : | Reproductive toxicity |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |
| STOT RE | : | Specific target organ toxicity - repeated exposure |

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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation 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 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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