

# SAFETY DATA SHEET

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



## ALTEMP Q NB 50

|         |                |                                 |                   |
|---------|----------------|---------------------------------|-------------------|
| Version | Revision Date: | Date of last issue: 2023-06-23  | Print Date: 2024- |
| 1.14    | 2024-06-28     | Date of first issue: 2015-07-06 | 06-28             |

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

#### 1.1 Product identifier

Product name : ALTEMP Q NB 50

Article-No. : 005011

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

Use of the  
Substance/Mixture : Grease

Recommended restrictions  
on use : Restricted to professional users.

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

Company : Klüber Lubrication München GmbH & Co. KG  
Geisenhausenerstr. 7  
81379 München  
Deutschland  
Tel.: +49 (0) 89 7876 0  
Fax: +49 (0) 89 7876 333  
info@klueber.com

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

National contact : Klüber Lubrication Nordic A/S  
Vasagatan 36  
111 20 Stockholm  
Sweden  
Tel: +46 8 59098600  
Fax: +46 8 59098601  
klueber.se@klueber.com

#### 1.4 Emergency telephone number

Emergency telephone  
number : 112 - ask for poison information  
  
+49 89 7876 700 (24 hrs)

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**KLÜBER**  
LUBRICATION

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Short-term (acute) aquatic hazard, Category 1                      H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1                      H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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

Hazard pictograms

:



Signal word                      :    Warning

Hazard statements                :    H410                      Very toxic to aquatic life with long lasting effects.

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

### 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.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : solid lubricant  
Mineral oil.  
barium complex soap

#### Components

| Chemical name                                                    | CAS-No.<br>EC-No.<br><br>Index-No.<br>Registration number              | Classification                                       | specific<br>concentration<br>limit<br>M-Factor<br>Notes<br>Acute toxicity<br>estimate | Concentration<br>(% w/w) |
|------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|
| trizinc<br>bis(orthophosphate)                                   | 7779-90-0<br>231-944-3<br><br>030-011-00-6<br>01-2119485044-40-XXXX    | Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410 | M-Factor: 1/1                                                                         | >= 30 - < 50             |
| barium salts                                                     | 1282612-27-4<br>433-080-4<br><br>056-002-00-7<br>01-0000017924-63-0001 | Acute Tox.4; H302<br>Acute Tox.4; H332               | Note A, Note 1                                                                        | >= 10 - < 20             |
| zinc oxide                                                       | 1314-13-2<br>215-222-5<br><br>030-013-00-7<br>01-2119463881-32-XXXX    | Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410 | M-Factor: 1/1                                                                         | >= 2,5 - < 10            |
| Substances with a workplace exposure limit :                     |                                                                        |                                                      |                                                                                       |                          |
| White mineral oil<br>(petroleum)                                 | 8042-47-5<br>232-455-8<br><br>01-2119487078-27-XXXX                    | Not classified                                       |                                                                                       | >= 10 - < 20             |
| Distillates (petroleum),<br>solvent-dewaxed<br>heavy paraffinic; | 64742-65-0<br>265-169-7                                                | Not classified                                       | Note L                                                                                | >= 10 - < 20             |

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|                                                                               |                                         |                |        |                 |
|-------------------------------------------------------------------------------|-----------------------------------------|----------------|--------|-----------------|
| Baseoil — unspecified                                                         | 649-474-00-6<br>01-2119471299-27-XXXX   |                |        |                 |
| Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified | 64742-53-6<br>265-156-6<br>649-466-00-2 | Not classified | Note L | $\geq 1 - < 10$ |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- |                         |                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled              | : Remove person to fresh air. If signs/symptoms continue, get medical attention.<br>Keep patient warm and at rest.<br>If unconscious, place in recovery position and seek medical advice.<br>Keep respiratory tract clear.<br>If breathing is irregular or stopped, administer artificial respiration. |
| In case of skin contact | : Take off all contaminated clothing immediately.<br>Wash off immediately with soap and plenty of water.<br>Get medical attention immediately if irritation develops and persists.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse.                                              |
| In case of eye contact  | : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.<br>If eye irritation persists, consult a specialist.                                                                                                                                                        |
| If swallowed            | : Move the victim to fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>Keep respiratory tract clear.<br>Do not induce vomiting without medical advice.<br>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. |
| Risks    | : None known.                    |

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### 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  
Oxides of phosphorus  
Metal oxides

### 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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Do not breathe vapours, aerosols.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Pick up and transfer to properly labelled containers.

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### 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 : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not repack.  
These safety instructions also apply to empty packaging which may still contain product residues.  
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

| Components                    | CAS-No.   | Value type (Form of exposure) | Control parameters  | Basis               |
|-------------------------------|-----------|-------------------------------|---------------------|---------------------|
| White mineral oil (petroleum) | 8042-47-5 | NGV (Mist)                    | 1 mg/m <sup>3</sup> | SE AFS (2020-09-28) |
|                               |           | KGV (Mist)                    | 3 mg/m <sup>3</sup> | SE AFS (2020-09-28) |

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|                                                                                  |                                                                                                                                |                  |                     |                     |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|---------------------|
|                                                                                  | Further information: Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded |                  |                     |                     |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified | 64742-65-0                                                                                                                     | NGV (Mist)       | 1 mg/m <sup>3</sup> | SE AFS (2020-09-28) |
|                                                                                  |                                                                                                                                | KGV (Mist)       | 3 mg/m <sup>3</sup> | SE AFS (2020-09-28) |
|                                                                                  | Further information: Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded |                  |                     |                     |
| zinc oxide                                                                       | 1314-13-2                                                                                                                      | NGV (Total dust) | 5 mg/m <sup>3</sup> | SE AFS (2018-02-19) |
| Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified    | 64742-53-6                                                                                                                     | NGV (Mist)       | 1 mg/m <sup>3</sup> | SE AFS (2020-09-28) |
|                                                                                  |                                                                                                                                | KGV (Mist)       | 3 mg/m <sup>3</sup> | SE AFS (2020-09-28) |
|                                                                                  | Further information: Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded |                  |                     |                     |

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

| Substance name                                                                   | End Use | Exposure routes | Potential health effects   | Value                    |
|----------------------------------------------------------------------------------|---------|-----------------|----------------------------|--------------------------|
| White mineral oil (petroleum)                                                    | Workers | Inhalation      | Long-term systemic effects | 164,56 mg/m <sup>3</sup> |
|                                                                                  | Workers | Skin contact    | Long-term systemic effects | 217,05 mg/kg             |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified | Workers | Inhalation      | Long-term systemic effects | 2,73 mg/m <sup>3</sup>   |
|                                                                                  | Workers | Skin contact    | Long-term systemic effects | 0,97 mg/kg               |
| Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified    | Workers | Inhalation      | Long-term systemic effects | 5,58 mg/m <sup>3</sup>   |
|                                                                                  | Workers | Inhalation      | Long-term systemic effects | 2,73 mg/m <sup>3</sup>   |
|                                                                                  | Workers | Skin contact    | Long-term systemic effects | 0,97 mg/kg               |

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

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| Substance name                                                                   | Environmental Compartment                            | Value       |
|----------------------------------------------------------------------------------|------------------------------------------------------|-------------|
| trizinc bis(orthophosphate)                                                      | Fresh water                                          | 0,085 mg/l  |
|                                                                                  | Marine water                                         | 0,0425 mg/l |
|                                                                                  | Microbiological Activity in Sewage Treatment Systems | 0,59 mg/l   |
|                                                                                  | Fresh water sediment                                 | 867,4 mg/kg |
|                                                                                  | Marine sediment                                      | 957,7 mg/kg |
|                                                                                  | Soil                                                 | 490,7 mg/kg |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified | Oral                                                 | 9,33 mg/kg  |
| zinc oxide                                                                       | Fresh water                                          | 0,0179 mg/l |
|                                                                                  | Marine water                                         | 0,009 mg/l  |
|                                                                                  | Sewage treatment plant                               | 0,1245 mg/l |
|                                                                                  | Fresh water sediment                                 | 182,8 mg/kg |
|                                                                                  | Marine sediment                                      | 201,9 mg/kg |
|                                                                                  | Soil                                                 | 103,4 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

#### Hand protection

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

Remarks : For prolonged or repeated contact use 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.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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 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.



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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |   |                    |
|--------------------------------------------------|---|--------------------|
| Physical state                                   | : | paste              |
| Colour                                           | : | white              |
| Odour                                            | : | characteristic     |
| Odour Threshold                                  | : | No data available  |
| Melting point/range                              | : | No data available  |
| Boiling point/boiling range                      | : | No data available  |
| Flammability (solid, gas)                        | : | Combustible Solids |
| Upper explosion limit / Upper flammability limit | : | No data available  |
| Lower explosion limit / Lower flammability limit | : | No data available  |
| Flash point                                      | : | Not applicable     |
| Auto-ignition temperature                        | : | No data available  |
| Decomposition temperature                        | : | No data available  |
| pH                                               | : | Not applicable     |
| Viscosity                                        |   |                    |
| Viscosity, dynamic                               | : | No data available  |
| Viscosity, kinematic                             | : | Not applicable     |
| Solubility(ies)                                  |   |                    |
| Water solubility                                 | : | insoluble          |
| Solubility in other solvents                     | : | No data available  |
| Partition coefficient: n-octanol/water           | : | No data available  |

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|                            |   |                                                                        |
|----------------------------|---|------------------------------------------------------------------------|
| Vapour pressure            | : | < 0,001 hPa (20 °C)                                                    |
| Relative density           | : | 1,440 (20 °C)<br>Reference substance: Water<br>The value is calculated |
| Density                    | : | 1,44 g/cm <sup>3</sup><br>(20 °C)                                      |
| Bulk density               | : | No data available                                                      |
| Relative vapour density    | : | No data available                                                      |
| Particle characteristics   |   |                                                                        |
| Particle size              | : | Not applicable                                                         |
| Particle Size Distribution | : | Not applicable                                                         |

### 9.2 Other information

|                      |   |                   |
|----------------------|---|-------------------|
| Explosives           | : | Not explosive     |
| Oxidizing properties | : | No data available |
| Self-ignition        | : | No data available |
| Evaporation rate     | : | No data available |
| Sublimation point    | : | 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. |
|--------------------|---|------------------------------------------|

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### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: Harmful by inhalation.  
  
Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

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

##### Components:

##### **trizinc bis(orthophosphate):**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

##### **barium salts:**

Acute oral toxicity : LD50 (Rat): Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

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

##### **zinc oxide:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,7 mg/l

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Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute  
inhalation toxicity

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

### White mineral oil (petroleum):

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute  
inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal  
toxicity

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### Skin corrosion/irritation

#### Product:

Remarks : This information is not available.

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### Components:

#### **trizinc bis(orthophosphate):**

|            |   |                    |
|------------|---|--------------------|
| Species    | : | Rabbit             |
| Assessment | : | No skin irritation |
| Result     | : | No skin irritation |

#### **barium salts:**

|            |   |                         |
|------------|---|-------------------------|
| Species    | : | Rabbit                  |
| Assessment | : | No skin irritation      |
| Method     | : | OECD Test Guideline 404 |
| Result     | : | No skin irritation      |
| GLP        | : | yes                     |

#### **zinc oxide:**

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

#### **White mineral oil (petroleum):**

|            |   |                         |
|------------|---|-------------------------|
| Species    | : | Rabbit                  |
| Assessment | : | No skin irritation      |
| Method     | : | OECD Test Guideline 404 |
| Result     | : | No skin irritation      |
| GLP        | : | yes                     |

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

|            |   |                         |
|------------|---|-------------------------|
| Species    | : | Rabbit                  |
| Assessment | : | No skin irritation      |
| Method     | : | OECD Test Guideline 404 |
| Result     | : | No skin irritation      |
| GLP        | : | yes                     |

#### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

|            |   |                    |
|------------|---|--------------------|
| Species    | : | Rabbit             |
| Assessment | : | No skin irritation |
| Result     | : | No skin irritation |

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

#### Product:

Remarks : This information is not available.

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### Components:

#### **trizinc bis(orthophosphate):**

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

#### **barium salts:**

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

#### **zinc oxide:**

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

#### **White mineral oil (petroleum):**

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

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

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

#### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

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

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### Respiratory or skin sensitisation

#### Product:

Remarks : This information is not available.

#### Components:

##### **trizinc bis(orthophosphate):**

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

##### **barium salts:**

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

##### **zinc oxide:**

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

##### **White mineral oil (petroleum):**

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

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

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

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GLP : yes

### Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:

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

### Germ cell mutagenicity

#### Product:

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

#### Components:

##### trizinc bis(orthophosphate):

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

##### barium salts:

|                       |                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: Ames test<br>Method: OECD Test Guideline 471<br>Result: negative<br>GLP: yes |
|-----------------------|-------------------------------------------------------------------------------------------|

##### zinc oxide:

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

##### White mineral oil (petroleum):

|                                       |                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro                 | : Test Type: Ames test<br>Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)<br>Result: negative<br>GLP: yes |
| Germ cell mutagenicity-<br>Assessment | : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.                                                  |

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

|                       |                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test system: Salmonella typhimurium<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 471 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|



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Result: negative

Genotoxicity in vivo : Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### Carcinogenicity

#### Product:

Remarks : No data available

#### Components:

##### **trizinc bis(orthophosphate):**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **zinc oxide:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **White mineral oil (petroleum):**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Species : Mouse  
Application Route : Dermal  
Method : OECD Test Guideline 451  
Result : negative

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

#### Components:

##### **trizinc bis(orthophosphate):**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction

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- Teratogenicity -  
No effects on or via lactation

### zinc oxide:

Reproductive toxicity -  
Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No toxicity to reproduction

### White mineral oil (petroleum):

Reproductive toxicity -  
Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No effects on or via lactation

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Effects on foetal  
development : Species: Rat  
Application Route: Dermal  
General Toxicity Maternal: NOAEL: 30 mg/kg body weight  
Developmental Toxicity: NOAEL: 30 mg/kg body weight  
Method: OECD Test Guideline 414

### STOT - single exposure

#### Product:

Remarks : No data available

#### Components:

### zinc oxide:

Assessment : The substance or mixture is not classified as specific target  
organ toxicant, single exposure.

### White mineral oil (petroleum):

Assessment : The substance or mixture is not classified as specific target  
organ toxicant, single exposure.

### STOT - repeated exposure

#### Product:

Remarks : No data available

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### Components:

#### **zinc oxide:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **White mineral oil (petroleum):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

#### Product:

Remarks : This information is not available.

### Components:

#### **barium salts:**

NOAEL : 150 mg/kg

#### **White mineral oil (petroleum):**

NOAEL : 1.800 mg/kg  
Exposure time : 90 d

### **Aspiration toxicity**

#### Product:

This information is not available.

### Components:

#### **trizinc bis(orthophosphate):**

No aspiration toxicity classification

#### **zinc oxide:**

No aspiration toxicity classification

#### **White mineral oil (petroleum):**

No aspiration toxicity classification

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

No aspiration toxicity classification

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**Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

No aspiration toxicity classification

### 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.

#### Further information

##### Product:

Remarks : Risks of irreversible effects after a single exposure.

## SECTION 12: Ecological information

### 12.1 Toxicity

##### Product:

Toxicity to fish : Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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:

##### **trizinc bis(orthophosphate):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,14 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,08 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

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Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,136 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### barium salts:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (Bacteria): > 1.000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
GLP: yes

### zinc oxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,55 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,136 mg/l

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Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 0,04 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### White mineral oil (petroleum):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 1.000 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

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Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### Components:

#### trizinc bis(orthophosphate):

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

#### barium salts:

Biodegradability : Test Type: Primary biodegradation  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 16,8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

#### zinc oxide:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

#### White mineral oil (petroleum):

Biodegradability : Test Type: Primary biodegradation  
Inoculum: activated sludge  
Result: Not rapidly biodegradable

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Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### barium salts:

Partition coefficient: n-octanol/water : log Pow: 0,9 - 18

#### White mineral oil (petroleum):

Partition coefficient: n-octanol/water : Pow: > 6

### Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:

Partition coefficient: n-octanol/water : log Pow: 1,99

## 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



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0.1% or higher.

### Components:

#### **trizinc bis(orthophosphate):**

Assessment : Remarks: Not applicable

#### **zinc oxide:**

Assessment : Remarks: Not applicable

#### **White mineral oil (petroleum):**

Assessment : Non-classified PBT substance. Non-classified vPvB substance

## 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

### Product:

Additional ecological information : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

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The following Waste Codes are only suggestions:

Waste Code : used product, unused product  
12 01 12\*\*, spent waxes and fats

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

ADR : UN 3077  
RID : UN 3077  
IMDG : UN 3077  
IATA : UN 3077

### 14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Zinc Phosphate, zinc oxide)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Zinc Phosphate, zinc oxide)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Zinc Phosphate, zinc oxide)

IATA : Environmentally hazardous substance, solid, n.o.s.  
(Zinc Phosphate, zinc oxide)

### 14.3 Transport hazard class(es)

ADR : 9  
RID : 9  
IMDG : 9  
IATA : 9

### 14.4 Packing group

ADR  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

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Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

### IMDG

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

### IATA (Cargo)

Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

### IATA (Passenger)

Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

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.

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### 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 - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009) : Not applicable

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

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

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

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : 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. | E1 | ENVIRONMENTAL HAZARDS |
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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0,13 %

### Other regulations:

Hygiene limits (AFS 2018:1), provisions - Occupational Safety and Health Administration's provisions on hygiene limits and general advice on the application of the provisions.

Take note of the Swedish Work Environment Authority regulations on Chemical Hazards in the Working Environment (AFS 2011:19)

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                         |
|------|---------------------------------------------------------|
| H302 | : Harmful if swallowed.                                 |
| H332 | : Harmful if inhaled.                                   |
| H400 | : Very toxic to aquatic life.                           |
| H410 | : Very toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|        |                                                                                                                                                                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1 | : The concentration stated or, in the absence of such concentrations, the generic concentrations set out in this Regulation are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture.                                                                                                                               |
| Note A | : Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as "... compounds" or "... salts". In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4. |
| Note L | : The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl                                                                      |

# SAFETY DATA SHEET

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



## ALTEMP Q NB 50

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sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

|              |   |                                            |
|--------------|---|--------------------------------------------|
| SE AFS       | : | Sweden. Occupational Exposure Limit Values |
| SE AFS / NGV | : | Time Weighted Average                      |
| SE AFS / KGV | : | Short Term Exposure Limit                  |

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 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

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |

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