

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.03.2022

Version number 4 (replaces version 3)

Revision: 15.03.2022

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

### 1.1 Product identifier

- Trade name: **Everclear 300, Komponente A**
- Article number: 1133x\_A, 1134x\_A, 1136x\_A, 1137x\_A
- UFI: AV93-H0NN-8006-9MKE

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

No further relevant information available.

### Application of the substance / the mixture

Polyurethane resin

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

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg
- Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

### Further information obtainable from:

Laboratory

### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

- Eye Irrit. 2      H319 Causes serious eye irritation.
- Skin Sens. 1      H317 May cause an allergic skin reaction.
- Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS07

#### Signal word

Warning

#### Hazard-determining components of labelling:

tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate  
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl  
1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
poly(oxy-1,2-ethanediyl),  $\alpha$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-  
hydroxyphenyl]-1-oxopropyl]- $\omega$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-  
4-hydroxyphenyl]-1-oxopropoxy]-

#### Hazard statements

H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101      If medical advice is needed, have product container or label at hand.  
P102      Keep out of reach of children.  
P103      Read carefully and follow all instructions.  
P261      Avoid breathing vapours.  
P273      Avoid release to the environment.  
P280      Wear protective gloves / eye protection.

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P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment**

· **PBT:** Not applicable.  
 · **vPvB:** Not applicable.

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

· **Description:** Mixture: consisting of the following components.

**Dangerous components:**

|             |  |        |
|-------------|--|--------|
| 136210-30-5 | tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412   | 25-50% |
| 168253-59-6 | Asparaginsäure, N,N'-(2-methyl-1,5-pentadiyl)bis-, 1,1',4,4'-tetraethylester<br>Aquatic Chronic 3, H412  | <10%   |
| 13463-67-7  | titanium dioxide<br>Carc. 2, H351  | 1-5%   |
| 623-91-6    | diethyl fumarate<br>Eye Dam. 1, H318<br>Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335   | 1-5%   |
| 104810-47-1 | poly(oxy-1,2-ethanediy), $\alpha$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- $\omega$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-<br>Aquatic Chronic 2, H411<br>Skin Sens. 1, H317 | <1%    |
|             | Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate<br>Repr. 2, H361f<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410<br>Skin Sens. 1A, H317  | <1%    |

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

**SECTION 4: First aid measures****4.1 Description of first aid measures**

· **After inhalation:** Supply fresh air and to be sure call for a doctor.  
 In case of unconsciousness place patient stably in side position for transportation.  
 · **After skin contact:** Immediately wash with water and soap and rinse thoroughly.  
 · **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
 · **After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

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

In case of fire, the following can be released:  
Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (HCN)

· **5.3 Advice for firefighters**

· Protective equipment:

Wear self-contained respiratory protective device.

· Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

· Information about fire - and explosion protection:

No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· Storage:

· Requirements to be met by storerooms and receptacles:

Provide floor trough without outlet.

· Information about storage in one common storage facility:

Store away from foodstuffs.

· Further information about storage conditions:

Protect from frost.  
Store in cool, dry conditions in well sealed receptacles.

· Storage class:

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**Trade name:** Everclear 300, Komponente A**7.3 Specific end use(s)**

No further relevant information available.

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

· Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs**136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate**

|            |                             |                                 |
|------------|-----------------------------|---------------------------------|
| Oral       | DNEL (Kurzzeit-akut)        | 1.4 mg/kg bw/day (BEV)          |
|            | DNEL (Langzeit-wiederholt)  | 4 mg/kg bw/day (ARB)            |
| Dermal     |                             | 1.4 mg/kg bw/day (BEV)          |
|            | DNEL (Kurzzeit-akut)        | 1.4 mg/kg bw/day (BEV)          |
|            | DNEL ( Langzeit-wiederholt) | 4 mg/kg bw/day (ARB)            |
| Inhalative |                             | 1.4 mg/kg bw/day (BEV)          |
|            | DNEL (Kurzzeit-akut)        | 112 mg/m <sup>3</sup> Air (ARB) |
|            |                             | 4.8 mg/m <sup>3</sup> Air (BEV) |
|            | DNEL (Langzeit-wiederholt)  | 28 mg/m <sup>3</sup> Air (ARB)  |
|            |                             | 4.8 mg/m <sup>3</sup> Air (BEV) |

**168253-59-6 Asparaginsäure, N,N'-(2-methyl-1,5-pentadiyl)bis-, 1,1',4,4'-tetraethylester**

|            |                             |                                 |
|------------|-----------------------------|---------------------------------|
| Oral       | DNEL (Kurzzeit-akut)        | 2.5 mg/kg bw/day (BEV)          |
|            | DNEL (Langzeit-wiederholt)  | 2.5 mg/kg bw/day (BEV)          |
| Dermal     | DNEL (Kurzzeit-akut)        | 2.5 mg/kg bw/day (BEV)          |
|            | DNEL ( Langzeit-wiederholt) | 7 mg/kg bw/day (ARB)            |
| Inhalative |                             | 2.5 mg/kg bw/day (BEV)          |
|            | DNEL (Kurzzeit-akut)        | 200 mg/m <sup>3</sup> Air (ARB) |
|            |                             | 8.7 mg/m <sup>3</sup> Air (BEV) |
|            | DNEL (Langzeit-wiederholt)  | 50 mg/m <sup>3</sup> Air (ARB)  |
|            |                             | 8.7 mg/m <sup>3</sup> Air (BEV) |

**13463-67-7 titanium dioxide**

|            |                            |                                |
|------------|----------------------------|--------------------------------|
| Oral       | DNEL (Langzeit-wiederholt) | 700 mg/kg bw/day (BEV)         |
| Inhalative | DNEL (Langzeit-wiederholt) | 10 mg/m <sup>3</sup> Air (ARB) |

**104810-47-1 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-**

|            |                             |                                   |
|------------|-----------------------------|-----------------------------------|
| Oral       | DNEL (Langzeit-wiederholt)  | 0.025 mg/kg bw/day (BEV)          |
| Dermal     | DNEL ( Langzeit-wiederholt) | 0.5 mg/kg bw/day (ARB)            |
|            |                             | 0.25 mg/kg bw/day (BEV)           |
| Inhalative | DNEL (Langzeit-wiederholt)  | 0.35 mg/m <sup>3</sup> Air (ARB)  |
|            |                             | 0.085 mg/m <sup>3</sup> Air (BEV) |

**Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

|        |                             |                         |
|--------|-----------------------------|-------------------------|
| Oral   | DNEL (Kurzzeit-akut)        | 1.25 mg/kg bw/day (BEV) |
|        | DNEL (Langzeit-wiederholt)  | 0.18 mg/kg bw/day (BEV) |
| Dermal | DNEL (Kurzzeit-akut)        | 2.5 mg/kg bw/day (ARB)  |
|        |                             | 1.25 mg/kg bw/day (BEV) |
|        | DNEL ( Langzeit-wiederholt) | 1.8 mg/kg bw/day (ARB)  |

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|            |                            |  |
|------------|----------------------------|--|
| Inhalative | DNEL (Kurzzeit-akut)       | 0.9 mg/kg bw/day (BEV)<br>2.35 mg/m <sup>3</sup> Air (ARB)<br>0.58 mg/m <sup>3</sup> Air (BEV) |
|            | DNEL (Langzeit-wiederholt) | 1.27 mg/m <sup>3</sup> Air (ARB)<br>0.31 mg/m <sup>3</sup> Air (BEV)                           |

## · PNECs

**136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate**

|                |                             |
|----------------|-----------------------------|
| PNEC (wässrig) | 31.1 mg/l (KA)              |
|                | 0.000013 mg/l (MW)          |
|                | 0.00013 mg/l (SW)           |
| PNEC (fest)    | 0.1 mg/kg Trockengew (BO)   |
|                | 0.02 mg/kg Trockengew (MWS) |
|                | 0.21 mg/kg Trockengew (SWS) |

**168253-59-6 Asparaginsäure, N,N'-(2-methyl-1,5-pentadiyl)bis-, 1,1',4,4'-tetraethylester**

|                |                             |
|----------------|-----------------------------|
| PNEC (wässrig) | 320 mg/l (KA)               |
|                | 0.00417 mg/l (MW)           |
|                | 0.0417 mg/l (SW)            |
| PNEC (fest)    | 0.42 mg/kg Trockengew (BO)  |
|                | 0.22 mg/kg Trockengew (MWS) |
|                | 2.24 mg/kg Trockengew (SWS) |

**13463-67-7 titanium dioxide**

|                |                              |
|----------------|------------------------------|
| PNEC (wässrig) | 100 mg/l (KA)                |
|                | 1 mg/l (MW)                  |
|                | 0.127 mg/l (SW)              |
| PNEC (fest)    | 100 mg/kg Trockengew (BO)    |
|                | 100 mg/kg Trockengew (MWS)   |
|                | 1,000 mg/kg Trockengew (SWS) |

**104810-47-1 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-**

|                |                              |
|----------------|------------------------------|
| PNEC (wässrig) | 10 mg/l (KA)                 |
|                | 0.00023 mg/l (MW)            |
|                | 0.0023 mg/l (SW)             |
|                | 0.028 mg/l (WAS)             |
| PNEC (fest)    | 2 mg/kg Trockengew (BO)      |
|                | 0.306 mg/kg Trockengew (MWS) |
|                | 3.06 mg/kg Trockengew (SWS)  |

**Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

|                |                             |
|----------------|-----------------------------|
| PNEC (wässrig) | 1 mg/l (KA)                 |
|                | 0.00022 mg/l (MW)           |
|                | 0.0022 mg/l (SW)            |
|                | 0.009 mg/l (WAS)            |
| PNEC (fest)    | 0.21 mg/kg Trockengew (BO)  |
|                | 0.11 mg/kg Trockengew (MWS) |
|                | 1.05 mg/kg Trockengew (SWS) |

## · Additional information:

The lists valid during the making were used as basis.

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**· 8.2 Exposure controls**

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid close or long term contact with the skin.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not eat or drink while working.

- Respiratory protection:

Short term filter device:

Filter A/P2

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

- Hand protection

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Protective gloves**

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

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

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

- Material of gloves

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

- Penetration time of glove material

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

- For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

- As protection from splashes gloves made of the following materials are suitable:

Butoject (KCL, Art\_No. 897, 898)

Butyl rubber, BR

- Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

- Eye/face protection

Goggles recommended during refilling

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· Body protection: Protective work clothing

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

|   |                                   |
|---|-----------------------------------|
| · <u>Colour:</u>  | Coloured                          |
| · <u>Odour:</u>   | Weak, characteristic              |
| · <u>Odour threshold:</u>   | Not determined.                   |
| · <u>Melting point/freezing point:</u>                            | Undetermined.                     |
| · <u>Boiling point or initial boiling point and boiling range</u> | Undetermined.                     |
| · <u>Flammability</u>   | Not applicable.                   |
| · <u>Lower and upper explosion limit</u>                          |                                   |
| · <u>Lower:</u>   | Not determined.                   |
| · <u>Upper:</u>   | Not determined.                   |
| · <u>Flash point:</u>   | Not applicable.                   |
| · <u>Decomposition temperature:</u>                               | Not determined.                   |
| · <u>pH</u>   | Not determined.                   |
| · <u>Viscosity:</u>   |                                   |
| · <u>Kinematic viscosity</u>                                      | Not determined.                   |
| · <u>Dynamic:</u>   | Not determined.                   |
| · <u>Solubility</u>   |                                   |
| · <u>water:</u>   | Not miscible or difficult to mix. |
| · <u>Partition coefficient n-octanol/water (log value)</u>        | Not determined.                   |
| · <u>Vapour pressure:</u>   | Not determined.                   |
| · <u>Density and/or relative density</u>                          |                                   |
| · <u>Density at 20 °C:</u>  | 1.61 g/cm <sup>3</sup>            |
| · <u>Relative density</u>   | Not determined.                   |
| · <u>Vapour density</u>   | Not determined.                   |

**· 9.2 Other information**

|  |   |
|--|---|
| · <u>Appearance:</u>   |   |
| · <u>Form:</u>   | Pasty   |
| · <u>Important information on protection of health and environment, and on safety.</u> |   |
| · <u>Auto-ignition temperature:</u>  | Product is not selfigniting.                  |
| · <u>Explosive properties:</u>   | Product does not present an explosion hazard. |
| · <u>Solvent content:</u>  |   |
| · <u>Solids content:</u>   | 56.0 %  |
| · <u>Change in condition</u>   |   |
| · <u>Evaporation rate</u>  | Not determined.                               |

· Information with regard to physical hazard classes

|                               |      |
|-------------------------------|------|
| · <u>Explosives</u>           | Void |
| · <u>Flammable gases</u>      | Void |
| · <u>Aerosols</u>             | Void |
| · <u>Oxidising gases</u>      | Void |
| · <u>Gases under pressure</u> | Void |

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|  |      |
|--|------|
| · <u>Flammable liquids</u>   | Void |
| · <u>Flammable solids</u>  | Void |
| · <u>Self-reactive substances and mixtures</u>                                     | Void |
| · <u>Pyrophoric liquids</u>  | Void |
| · <u>Pyrophoric solids</u>   | Void |
| · <u>Self-heating substances and mixtures</u>                                      | Void |
| · <u>Substances and mixtures, which emit flammable gases in contact with water</u> | Void |
| · <u>Oxidising liquids</u>   | Void |
| · <u>Oxidising solids</u>  | Void |
| · <u>Organic peroxides</u>   | Void |
| · <u>Corrosive to metals</u>   | Void |
| · <u>Desensitised explosives</u>   | Void |

**SECTION 10: Stability and reactivity**

|  |   |
|--|---|
| · <b>10.1 Reactivity</b>                                   | No further relevant information available.            |
| · <b>10.2 Chemical stability</b>                           |   |
| · <u>Thermal decomposition / conditions to be avoided:</u> | No decomposition if used according to specifications. |
| · <b>10.3 Possibility of hazardous reactions</b>           | No dangerous reactions known.                         |
| · <b>10.4 Conditions to avoid</b>                          | No further relevant information available.            |
| · <b>10.5 Incompatible materials:</b>                      | No further relevant information available.            |
| · <b>10.6 Hazardous decomposition products:</b>            | No dangerous decomposition products known.            |

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**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

· LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

|      |      |                     |
|------|------|---------------------|
| Oral | LD50 | 157,606 mg/kg (rat) |
|------|------|---------------------|

**136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate**

|      |      |  |
|------|------|--|
| Oral | LD50 | >2,000 mg/kg (rat) (Richtlinie 67/548/EWG, Anhang V, B.1.) |
|------|------|--|

|        |      |  |
|--------|------|--|
| Dermal | LD50 | >2,000 mg/kg (rat) (Richtlinie 67/548/EWG, Anhang V, B.3.) |
|--------|------|--|

|            |         |  |
|------------|---------|--|
| Inhalative | LC50/4h | >4,224 mg/m <sup>3</sup> (rat) (OECD-Prüfrichtlinie 403) |
|------------|---------|--|

**168253-59-6 Asparaginsäure, N,N'-(2-methyl-1,5-pentadiyl)bis-, 1,1',4,4'-tetraethylester**

|      |      |                              |
|------|------|------------------------------|
| Oral | LD50 | >2,000 mg/kg (rat) (OECD423) |
|------|------|------------------------------|

|  |      |                 |
|--|------|-----------------|
|  | NOEL | 200 mg/kg (rat) |
|--|------|-----------------|

**13463-67-7 titanium dioxide**

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >5,010 mg/kg (rat) |
|------|------|--------------------|

|  |       |                    |
|--|-------|--------------------|
|  | NOAEL | 24,000 mg/kg (rat) |
|--|-------|--------------------|

|        |      |                     |
|--------|------|---------------------|
| Dermal | LD50 | >10,010 mg/kg (rbt) |
|--------|------|---------------------|

|            |       |                            |
|------------|-------|----------------------------|
| Inhalative | NOAEL | 10 mg/m <sup>3</sup> (rat) |
|------------|-------|----------------------------|

|  |          |                           |
|--|----------|---------------------------|
|  | LC50/48h | >100 mg/l (daphnia magna) |
|--|----------|---------------------------|

**623-91-6 diethyl fumarate**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 1,780 mg/kg (rat) |
|------|------|-------------------|

**104810-47-1 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-**

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
|------|------|--------------------|

|        |      |                    |
|--------|------|--------------------|
| Dermal | LD50 | >2,000 mg/kg (rat) |
|--------|------|--------------------|

**Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 3,230 mg/kg (rat) |
|------|------|-------------------|

|        |      |                    |
|--------|------|--------------------|
| Dermal | LD50 | >3,170 mg/kg (rat) |
|--------|------|--------------------|

- |  |   |
|--|---|
| · <u>Skin corrosion/irritation</u>         | Based on available data, the classification criteria are not met. |
| · <u>Serious eye damage/irritation</u>     | Causes serious eye irritation.                                    |
| · <u>Respiratory or skin sensitisation</u> | May cause an allergic skin reaction.                              |
| · <u>Germ cell mutagenicity</u>            | Based on available data, the classification criteria are not met. |
| · <u>Carcinogenicity</u>                   | Based on available data, the classification criteria are not met. |
| · <u>Reproductive toxicity</u>             | Based on available data, the classification criteria are not met. |
| · <u>STOT-single exposure</u>              | Based on available data, the classification criteria are not met. |
| · <u>STOT-repeated exposure</u>            | Based on available data, the classification criteria are not met. |
| · <u>Aspiration hazard</u>                 | Based on available data, the classification criteria are not met. |

**11.2 Information on other hazards**

· Endocrine disrupting properties

None of the ingredients is listed.

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**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate**

|           |   |
|-----------|---|
| EC50      | 3,110 mg/l (BES) (ISO Vorschrift 8192-1986 E)   |
| IC50/72h  | 113 mg/l (Scenedesmus subspicatus) (Richtlinie 67/548/EWG, Anhang V, C.3.)  |
| EC50/48h  | 88.6 mg/l (daphnia magna) (UBA-Verfahrensvorschlag Mai 1984)  |
| ErC50/72h | 113 mg/l (Scenedesmus subspicatus)  |
| NOEC      | 100 mg/kg (Ac) (OECD 208)<br>100 mg/kg (As) (OECD 208)<br>100 mg/kg (Bn) (OECD 208)<br>≥1,000 mg/kg (Eisenia fetida ( Regenwürmer)) (OECD-Prüfrichtlinie 207) |
| NOEC/21d  | 0.01 mg/l (daphnia magna) (Richtlinie 67/548/EWG, Anhang V, C.20.)  |
| LC50/96h  | 66 mg/l (Danio rerio.) (OECD 203)   |

**168253-59-6 Asparaginsäure, N,N'-(2-methyl-1,5-pentadiyl)bis-, 1,1',4,4'-tetraethylester**

|           |                                      |
|-----------|--------------------------------------|
| EC50      | >10,000 mg/l (BES)                   |
| LC 0/96h  | >87 mg/l (Danio rerio.)              |
| ErC50/72h | <84.2 mg/l (Scenedesmus subspicatus) |
| EC0       | >96.9 mg/l (daphnia magna)           |

**13463-67-7 titanium dioxide**

|          |  |
|----------|--|
| EC50     | >1,000 mg/l (bacteria)   |
| EC50/48h | >100 mg/l (daphnia magna)  |
| EC50/72h | 16 mg/l (Pseudokirchneriella subcapitata)                            |
| LC50/96h | >100 mg/l (Oncorhynchus mykiss)<br>>1,000 mg/l (pimephales promelas) |

**104810-47-1 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-**

|          |   |
|----------|---|
| EC50     | >1,000 mg/l (BES)                           |
| EC50/48h | 4 mg/l (daphnia magna)                      |
| LC 0     | >1,000 mg/l (Eisenia fetida ( Regenwürmer)) |
| NOEC     | 100 mg/kg (Eisenia fetida ( Regenwürmer))   |
| NOEC/21d | 0.78 mg/l (daphnia magna)                   |
| EC10     | 10 mg/l (Pseudokirchneriella subcapitata)   |
| EC50/72h | >100 mg/l (Pseudokirchneriella subcapitata) |
| LC50/96h | 2.8 mg/l (Oncorhynchus mykiss)              |

**Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

|          |  |
|----------|--|
| EC50/24h | 20 mg/l (daphnia magna)  |
| EC20/3h  | ≥100 mg/l (BES)  |
| LL0/96h  | 0.9 mg/l (Zebraabärbling)                                      |
| NOEC/21d | 1 mg/l (daphnia magna)   |
| EC50/72h | 1.68 mg/l (Desmodesmus subspicatus)                            |
| LC50/96h | 0.9 mg/l (Brachydanio rerio)<br>7.9 mg/l (Oncorhynchus mykiss) |

**· 12.2 Persistence and degradability**

Not easily biodegradable

**· 12.3 Bioaccumulative potential**

Non significant accumulation in organisms

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- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Harmful to aquatic organisms  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |   |  |
|---|--|
| · <b>14.1 UN number or ID number</b>                                  |  |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>14.2 UN proper shipping name</b>                                 |  |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>14.3 Transport hazard class(es)</b>                              |  |
| · <b>ADR, ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>  | Void   |
| · <b>14.4 Packing group</b>   |  |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>14.5 Environmental hazards:</b>                                  |  |
| · <b>Marine pollutant:</b>  | No   |
| · <b>14.6 Special precautions for user</b>                            | Not applicable.                                      |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                            | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>                                       | Void   |

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 0.0 g/l

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Laboratory  
 · Contact: Elke Hake  
 Fon ++49 (0)911 64296-59  
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· Date of previous version: 15.03.2022

· Version number of previous version: 3

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1A: Skin sensitisation – Category 1A

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Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

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

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