

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 2 (replaces version 1)

Revision: 17.01.2023

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

1.1 Product identifier

Trade name: **Mirror Gloss 2K-HS Clearcoat 2:1**

Article number: 72003, 72004

UFI: SEF0-60QR-S00G-Y0CY

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

Clear coating material, Varnish

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

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

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



GHS02 GHS07

Signal word

Warning

Hazard-determining components of labelling:

n-butyl acetate
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]-
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Hazard statements

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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| | |
|---------------------------|--|
| P103 | Read carefully and follow all instructions. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing vapours. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves / eye protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P304+P312 | IF INHALED: Call a POISON CENTER/doctor if you feel unwell. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| · Additional information: | EUH066 Repeated exposure may cause skin dryness or cracking. |

· **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 of substances listed below with nonhazardous additions.

· Dangerous components:

| | | |
|---|--|----------|
| CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29 | n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | 12.5-25% |
| CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29 | 2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 | <12.5% |
| CAS: 64742-95-6 EC number: 918-668-5 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35 | Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336 EUH066 | 1-5% |
| CAS: 104810-47-1 ELINCS: 400-830-7 Index number: 607-176-00-3 Reg.nr.: 01-2119396032-43 | 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]- Aquatic Chronic 2, H411 Skin Sens. 1, H317 | 1-5% |
| EC number: 915-687-0 Reg.nr.: 01-2119491304-40 | Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Repr. 2, H361f Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1A, H317 | <1% |
| CAS: 3648-18-8 EINECS: 222-883-3 Index number: 050-031-00-9 Reg.nr.: 01-2119979527-19-0000 | dioctyltin dilaurate Repr. 1A, H360D; STOT RE 1, H372 | <1% |

· SVHC

3648-18-8 | dioctyltin dilaurate

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· 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**

- General information: Take affected persons out into the fresh air.
Position and transport stably in side position.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Induce vomiting only, if affected person is fully conscious.
If symptoms persist consult doctor.

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

Breathing difficulty
Headache
Dizziness
Dizziness
Danger of impaired breathing.

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

If swallowed, gastric irrigation with added, activated carbon.
If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media**

· Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

· 5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
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
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.

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- **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:** Dispose of the material collected according to regulations.
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**
 - Keep receptacles tightly sealed.
 - Store in cool, dry place in tightly closed receptacles.
 - Keep away from heat and direct sunlight.
 - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 - Use only in well ventilated areas.
 - Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
 - Highly volatile, flammable constituents are released during processing.
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Store only in the original receptacle.
 - Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
 - Store away from oxidising agents.
- **Further information about storage conditions:**
 - Store receptacle in a well ventilated area.
 - Store in a cool place.
 - Keep container tightly sealed.
- **Storage class:**
 - 3
- **7.3 Specific end use(s)**
 - No further relevant information available.

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

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

123-86-4 n-butyl acetate

| | |
|-------|--|
| IOELV | Short-term value: 723 mg/m ³ , 150 ppm Long-term value: 241 mg/m ³ , 50 ppm |
|-------|--|

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|-------|--|
| IOELV | Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin |
|-------|--|

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64742-95-6 Solvent naphtha (petroleum), light arom.OEL Long-term value: 100 mg/m³, 20 ppm**DNELs****123-86-4 n-butyl acetate**

| | | |
|------------|----------------------------|---|
| Oral | DNEL (Kurzzeit-akut) | 2 mg/kg bw/day (BEV) |
| | DNEL (Langzeit-wiederholt) | 2 mg/kg bw/day (BEV) |
| Dermal | DNEL (Kurzzeit-akut) | 11 mg/kg bw/day (ARB) 6 mg/kg bw/day (BEV) |
| | DNEL (Langzeit-wiederholt) | 7 mg/kg bw/day (ARB) 3.4 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Kurzzeit-akut) | 960 mg/m ³ Air (ARB) 859.7 mg/m ³ Air (BEV) |
| | DNEL (Langzeit-wiederholt) | 480 mg/m ³ Air (ARB) 102.34 mg/m ³ Air (BEV) |

108-65-6 2-methoxy-1-methylethyl acetate

| | | |
|------------|----------------------------|---|
| Oral | DNEL (Langzeit-wiederholt) | 1.67 mg/kg bw/day (BEV) |
| Dermal | DNEL (Langzeit-wiederholt) | 153.5 mg/kg bw/day (ARB) 54.8 mg/kg bw/day (BEV) |
| | DNEL (Kurzzeit-akut) | 550 mg/m ³ Air (ARB) 33 mg/m ³ Air (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 275 mg/m ³ Air (ARB) 33 mg/m ³ Air (BEV) |

64742-95-6 Solvent naphtha (petroleum), light arom.

| | | |
|--------|----------------------------|---|
| Oral | DNEL (Langzeit-wiederholt) | 11 mg/kg bw/day (BEV) |
| Dermal | DNEL (Langzeit-wiederholt) | 25 mg/kg bw/day (ARB) 11 mg/kg bw/day (BEV) |
| | DNEL (Langzeit-wiederholt) | 150 mg/m ³ Air (ARB) 32 mg/m ³ Air (BEV) |

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) |
| | DNEL (Langzeit-wiederholt) | 0.35 mg/m ³ Air (ARB) 0.085 mg/m ³ 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) 0.9 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Kurzzeit-akut) | 2.35 mg/m ³ Air (ARB) |

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| | | |
|--|----------------------------|--|
| | DNEL (Langzeit-wiederholt) | 0.58 mg/m ³ Air (BEV) 1.27 mg/m ³ Air (ARB) 0.31 mg/m ³ Air (BEV) |
|--|----------------------------|--|

3648-18-8 dioctyltin dilaurate

| | | |
|------------|----------------------------|--|
| Oral | DNEL (Langzeit-wiederholt) | 0.0005 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 0.0035 mg/m ³ Air (ARB) 0.0009 mg/m ³ Air (BEV) |

· PNECs

123-86-4 n-butyl acetate

| | |
|----------------|-------------------------------|
| PNEC (wässrig) | 35.6 mg/l (KA) |
| | 0.018 mg/l (MW) |
| | 0.18 mg/l (SW) |
| | 0.36 mg/l (WAS) |
| PNEC (fest) | 0.0903 mg/kg Trockengew (BO) |
| | 0.0981 mg/kg Trockengew (MWS) |
| | 0.981 mg/kg Trockengew (SWS) |

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|----------------|------------------------------|
| PNEC (wässrig) | 100 mg/l (KA) |
| | 0.0635 mg/l (MW) |
| | 0.635 mg/l (SW) |
| | 6.35 mg/l (WAS) |
| PNEC (fest) | 0.29 mg/kg Trockengew (BO) |
| | 0.329 mg/kg Trockengew (MWS) |
| | 3.29 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) |

3648-18-8 dioctyltin dilaurate

| | |
|----------------|---------------|
| PNEC (wässrig) | 100 mg/l (KA) |
|----------------|---------------|

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| | |
|-------------|--------------------------------|
| PNEC (fest) | 0.0000018 mg/l (MW) |
| | 0.0000018 mg/l (SW) |
| | 0.005593 mg/kg Trockengew (BO) |
| | 0.02798 mg/kg Trockengew (MWS) |
| | 0.02798 mg/kg Trockengew (SWS) |

· Additional information: The lists valid during the making were used as basis.

· **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:

Avoid close or long term contact with the skin.
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
Clean skin thoroughly immediately after handling the product.
Wash hands before breaks and at the end of work.

· Respiratory protection:

Do not inhale gases / fumes / aerosols.

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



Protective gloves

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>).

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

Butyl rubber, BR

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

Value for the permeation: Level \leq 3, 60 min

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

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- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR
Butoject (KCL, Art_No. 897, 898)
- As protection from splashes gloves made of the following materials are suitable: Butyl rubber, BR
Butoject (KCL, Art_No. 897, 898)
- Not suitable are gloves made of the following materials: Leather gloves
Strong material gloves
- Eye/face protection  Tightly sealed goggles
- Body protection: Protective work clothing

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

- General Information
- Colour: Colourless
- Odour: Specific type
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range 124-128 °C
- Lower and upper explosion limit
- Lower: 1.5 Vol %
- Upper: 10.8 Vol %
- Flash point: 27 °C (123-86-4 n-butyl acetate)
- Ignition temperature: 315 °C
- pH Not determined.
- Viscosity:
- Kinematic viscosity at 20 °C 35 s (DIN 53211/4)
- Dynamic: Not determined.
- Solubility
- water: Not miscible or difficult to mix.
- Vapour pressure at 20 °C: 10.7 hPa
- Density and/or relative density
- Density at 20 °C: 1 g/cm³

9.2 Other information

- Appearance:
- Form: Fluid
- Important information on protection of health and environment, and on safety.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent content:
- Organic solvents: 39.8 %
- Solids content: 58.5 %

Information with regard to physical hazard classes

- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void
- Gases under pressure Void

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| | |
|--|------------------------------|
| · <u>Flammable liquids</u> | Flammable liquid and vapour. |
| · <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

| | |
|--|---|
| · 10.1 Reactivity | No further relevant information available. |
| · 10.2 Chemical stability | |
| · <u>Thermal decomposition / conditions to be avoided:</u> | No decomposition if used and stored according to specifications. |
| · 10.3 Possibility of hazardous reactions | Reacts with strong acids. Reacts with strong alkali. Reacts with strong oxidising agents. |
| · 10.4 Conditions to avoid | No further relevant information available. |
| · 10.5 Incompatible materials: | No further relevant information available. |
| · 10.6 Hazardous decomposition products: | Carbon monoxide and carbon dioxide Nitrogen oxides (NO _x) Possible in traces. |

SECTION 11: Toxicological information

| | |
|--|---|
| · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 | |
| · <u>Acute toxicity</u> | Based on available data, the classification criteria are not met. |

· LD/LC50 values relevant for classification:**123-86-4 n-butyl acetate**

| | | |
|------------|----------|-----------------------------------|
| Oral | LD50 | 10,760 mg/kg (rat) (OECD 423) |
| Dermal | LD50 | >14,112 mg/kg (rabbit) (OECD 402) |
| Inhalative | LC50/4 h | 23.4 mg/l (rat) (OECD 403) |
| | LC50 | 390 mg/m ³ (rat) |
| | LC50/48h | 64 mg/l (Brachydanio rerio) |

108-65-6 2-methoxy-1-methylethyl acetate

| | | |
|------------|-------------|----------------------------------|
| Oral | LD50 | 6,190 mg/kg (rat) (OECD 401) |
| | NOAEL-Werte | 1,500 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) (OECD 402) |
| | | >2,000 mg/kg (rat) |
| Inhalative | LC50/4h | >10,000 mg/m ³ (rat) |

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| | | |
|--|----------|------------------------------------|
| | LC50 | >23.8 mg/l (rat) |
| | LC50/4 h | 35.7 mg/l (rat) |
| | LC50/48h | 100 mg/l (Desmodesmus subspicatus) |

64742-95-6 Solvent naphtha (petroleum), light arom.

| | | |
|--------|------|-----------------------|
| Oral | LD50 | 3,592 mg/kg (rat) |
| Dermal | LD50 | >3,160 mg/kg (rabbit) |
| | | >2,000 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) |

3648-18-8 dioctyltin dilaurate

| | | |
|--------|------|--------------------|
| Oral | LD50 | 6,450 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |

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

11.2 Information on other hazards

- Endocrine disrupting properties

| | | |
|----------|--------------------------|---------|
| 128-37-0 | Butylated hydroxytoluene | List II |
|----------|--------------------------|---------|

SECTION 12: Ecological information**12.1 Toxicity**

- Aquatic toxicity:

123-86-4 n-butyl acetate

| | |
|----------|--|
| EC50/24h | 72.8 mg/l (daphnia magna) (DIN 38412) |
| EC50/96h | 320 mg/l (green alge) |
| LC50/24h | 205 mg/l (daphnia magna) |
| IC50/72h | 648 mg/l (Desmodesmus subspicatus) |
| EC10/18h | 959 mg/l (pseudomonas putida) |
| EC50/48h | 44 mg/l (daphnia magna) |
| EC50/16h | 959 mg/l (pseudomonas putida) |
| NOEC | 200 mg/kg (Desmodesmus subspicatus) |
| NOEC/21d | 23 mg/l (daphnia magna) (OECD 211) |
| EC50/72h | 647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest) |
| | 674 mg/l (Scenedesmus subspicatus) |

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| | |
|----------|--|
| LC50/96h | 62 mg/l (Danio rerio.) 81 mg/l (piscis) 100 mg/l (Iepomis macrochirus) 62 mg/l (Leuciscus idus) (DIN 38412) 18 mg/l (Pimephales promelas) (OECD 203) |
|----------|--|

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|-----------|---|
| EC50 | >100 mg/l (daphnia magna) |
| LC50 | 63.5 mg/l (Oryzias latipes) |
| EC50/48h | >500 mg/l (daphnia magna) (RL 67/548/EWG. Anhang V, C.2.) |
| ErC50/72h | >1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| EC20/0.5h | >1,000 mg/l (BES) (OECD 209) |
| NOEC | 47.5 mg/l (Oryzias latipes) |
| NOEC/21d | ≥100 mg/l (daphnia magna) |
| EC10 | >1,000 mg/l (BES) |
| LC50/96h | 180 mg/l (Oncorhynchus mykiss) >1,000 mg/l (Oryzias latipes) 161 mg/l (Pimephales promelas) |

64742-95-6 Solvent naphtha (petroleum), light arom.

| | |
|-----------|--|
| EC50 | <10 mg/l (daphnia magna) |
| IC50 | <10 mg/l (daphnia magna) |
| LC50 | <10 mg/l (green alge) >1-<10 mg/l (piscis) |
| EL50/48h | 3.2 mg/l (ceriodaphnia Dubai) 3.2 mg/l (daphnia magna) |
| EL50/72h | 2.6-2.9 mg/l (Pseudokirchneriella subcapitata) 2.9 mg/l (selenastrum capricornutum) |
| LL50/96h | 9.2 mg/l (Oncorhynchus mykiss) |
| NOELR/72h | 1 mg/l (Pseudokirchneriella subcapitata) |
| EC50/48h | 3.2 mg/l (daphnia magna) |
| EC50/72h | 2.9 mg/l (Pseudokirchneriella subcapitata) |
| LC50/96h | 9.2 mg/l (Oncorhynchus mykiss) |

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) |
|----------|-------------------------|

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| | |
|----------|-------------------------------------|
| 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) |
| | 7.9 mg/l (Oncorhynchus mykiss) |

· **12.2 Persistence and degradability**

No further relevant information available.

· **12.3 Bioaccumulative potential**

No further relevant information available.

· **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**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.
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.

· European waste catalogue

| | |
|-----------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00 | wastes from MFSU and removal of paint and varnish |
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· Recommended cleansing agents:

Alcohol

SECTION 14: Transport information

· **14.1 UN number or ID number**

· ADR, IMDG, IATA

UN1263

· **14.2 UN proper shipping name**

· ADR

1263 PAINT

· IMDG, IATA

PAINT

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EU

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· 14.3 Transport hazard class(es)· ADR

· Class 3 (F1) Flammable liquids.
 · Label 3

· IMDG, IATA

· Class 3 Flammable liquids.
 · Label 3

· 14.4 Packing group· ADR, IMDG, IATA III**· 14.5 Environmental hazards:**· Marine pollutant: No**· 14.6 Special precautions for user**

Warning: Flammable liquids.
 · Hazard identification number (Kemler code): 30
 · EMS Number: F-E, S-E
 · Stowage Category A

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:· ADR

· Limited quantities (LQ) 5L
 · Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

· Transport category 3
 · Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 5L
 · Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 1263 PAINT, 3, III**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.

· Seveso category

P5c FLAMMABLE LIQUIDS

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- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 20

· Regulation (EU) No 649/2012

3648-18-8 dioctyltin dilaurate

Annex I Part 1

· 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.
Employment restrictions concerning pregnant and lactating women 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

3648-18-8 dioctyltin dilaurate

· VOC EU 398.3 g/l

- DECOPAINT: subject to EU-regulations 2004/42/EG (ANNEX II)

EU limit for this product (product-category (Kat. B/d)): 420g/l (2010). The ready-to-use product (comprises of clear lacquer and hardener) contains max. 420 g/l VOC.

- **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

- Date of previous version: 17.01.2023

- Version number of previous version: 1

- 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

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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
Flam. Liq. 3: Flammable liquids – Category 3
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 1A: Reproductive toxicity – Category 1A
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
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

EU