

**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

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

**1.1 Product identifier**

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

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

Identified uses: professional use.

**Application of the substance / the mixture** Clear coating material, Varnish

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

**Manufacturer/Supplier:**

Q-Company Int. GmbH  
Beckershof 3  
24558 Henstedt-Ulzburg  
web: [www.qrefinish.com](http://www.qrefinish.com)  
phone: +49 (0)4193-75400

**Further information obtainable from:** [msds@qrefinish.com](mailto:msds@qrefinish.com)

**1.4 Emergency telephone number:**

+49 (0)551-19240 (Giftinformationszentrum-Nord)

**\* SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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



GHS02

Flam. Liq. 3

H226

Flammable liquid and vapour.



GHS08

STOT RE 2

H373

May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2

H315

Causes skin irritation.

Eye Irrit. 2

H319

Causes serious eye irritation.

Skin Sens. 1

H317

May cause an allergic skin reaction.

(Contd. on page 2)

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 1)

STOT SE 3 H335-H336 May cause respiratory irritation. 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

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

#### Hazard pictograms



GHS02 GHS07 GHS08

**Signal word** Warning

#### Hazard-determining components of labelling:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
hydrocarbons, C9, aromatics  
n-butyl acetate  
xylene

#### Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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.

(Contd. on page 3)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

Trade name: Q 70-105 2K MS AS Clearcoat 2:1

(Contd. of page 2)

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

PBT: Not applicable.

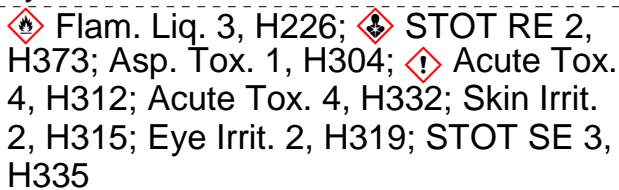
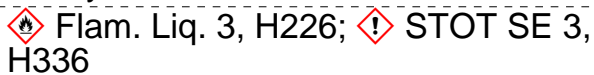
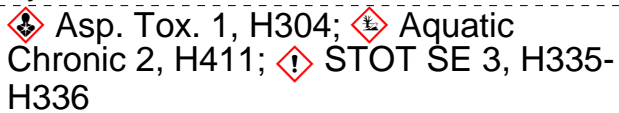

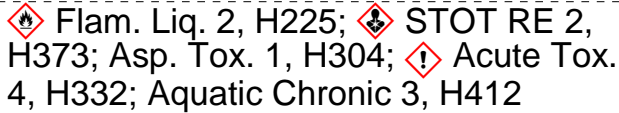
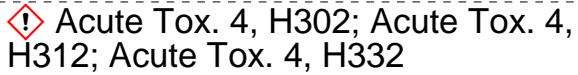
vPvB: Not applicable.

\* **SECTION 3: Composition/information on ingredients**

**3.2 Chemical characterisation: Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

|  |  |         |
|--|--|---------|
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Reg.nr.: 01-2119488216-32 | xylene<br>                          | 10-<20% |
| CAS: 123-86-4<br>EINECS: 204-658-1<br>Reg.nr.: 01-2119485493-29  | n-butyl acetate<br>                | 10-<20% |
| List no.: 918-668-5<br>Reg.nr.: 01-2119455851-35                 | hydrocarbons, C9, aromatics<br>    | 5-15%   |
| CAS: 108-65-6<br>EINECS: 203-603-9<br>Reg.nr.: 01-2119475791-29  | 2-methoxy-1-methylethyl acetate<br> | 1-7.5%  |
| CAS: 100-41-4<br>EINECS: 202-849-4<br>Reg.nr.: 01-2119489370-35  | ethylbenzene<br>                   | 2.5-10% |
| CAS: 112-07-2<br>EINECS: 203-933-3<br>Reg.nr.: 01-2119475112-47  | 2-butoxyethyl acetate<br>          | 1-5%    |

(Contd. on page 4)

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 3)

|  |  |           |
|--|--|-----------|
| List no.: 915-687-0<br>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<br>-----<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1A, H317 | 0.1-<0.5% |
|--|--|-----------|

**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:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Take affected persons out of danger area and lay down.

**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.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**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.

(Contd. on page 5)



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 4)

**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

**Additional information**

Cool endangered receptacles with water spray.

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**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with the eyes and skin.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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

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

Do not flush with water or aqueous cleansing agents.

Dispose of the material collected according to regulations.

**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.

(Contd. on page 6)



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

Trade name: Q 70-105 2K MS AS Clearcoat 2:1

(Contd. of page 5)

## \* SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Do not allow to enter sewers/ surface or ground water.

#### Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Fumes can combine with air to form an explosive mixture.

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

#### Storage:

#### Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

#### Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

#### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

### 7.3 Specific end use(s) No further relevant information available.

## \* SECTION 8: Exposure controls/personal protection

### Additional information about design of technical facilities:

No further data; see item 7.

### 8.1 Control parameters

|  |  |
|--|--|
| <b>Ingredients with limit values that require monitoring at the workplace:</b> |  |
| <b>1330-20-7 xylene</b>  |  |
| WEL (Great Britain)  | Short-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 220 mg/m <sup>3</sup> , 50 ppm<br>Sk; BMGV |

(Contd. on page 7)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 6)

|   |   |
|---|---|
| IOELV (EU)                                      | Short-term value: 442 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 221 mg/m <sup>3</sup> , 50 ppm<br>Skin  |
| <b>123-86-4 n-butyl acetate</b>                 |   |
| WEL (Great Britain)                             | Short-term value: 966 mg/m <sup>3</sup> , 200 ppm<br>Long-term value: 724 mg/m <sup>3</sup> , 150 ppm         |
| <b>108-65-6 2-methoxy-1-methylethyl acetate</b> |   |
| WEL (Great Britain)                             | Short-term value: 548 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 274 mg/m <sup>3</sup> , 50 ppm<br>Sk    |
| IOELV (EU)                                      | Short-term value: 550 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 275 mg/m <sup>3</sup> , 50 ppm<br>Skin  |
| <b>100-41-4 ethylbenzene</b>                    |   |
| WEL (Great Britain)                             | Short-term value: 552 mg/m <sup>3</sup> , 125 ppm<br>Long-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Sk   |
| IOELV (EU)                                      | Short-term value: 884 mg/m <sup>3</sup> , 200 ppm<br>Long-term value: 442 mg/m <sup>3</sup> , 100 ppm<br>Skin |
| <b>112-07-2 2-butoxyethyl acetate</b>           |   |
| WEL (Great Britain)                             | Short-term value: 332 mg/m <sup>3</sup> , 50 ppm<br>Long-term value: 133 mg/m <sup>3</sup> , 20 ppm<br>Sk     |
| IOELV (EU)                                      | Short-term value: 333 mg/m <sup>3</sup> , 50 ppm<br>Long-term value: 133 mg/m <sup>3</sup> , 20 ppm<br>Skin   |

**Regulatory information**

WEL (Great Britain): EH40/2011

IOELV (EU): (EU) 2017/164

**DNELs****1330-20-7 xylene**

|            |      |  |
|------------|------|--|
| Dermal     | DNEL | 180 mg/kg bw/day (long-term - systemic effects, workers)   |
| Inhalative | DNEL | 289 mg/m <sup>3</sup> (acute - systemic effects, workers)<br>289 mg/m <sup>3</sup> (acute - local effects, workers)<br>77 mg/m <sup>3</sup> (long-term - systemic effects, workers)<br>77 mg/m <sup>3</sup> (long-term - local effects, workers) |

(Contd. on page 8)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 7)

| <b>123-86-4 n-butyl acetate</b>   |      |  |
|---|------|--|
| Dermal  | DNEL | 7 mg/kg bw/day (long-term - systemic effects, workers)   |
| Inhalative  | DNEL | 960 mg/m <sup>3</sup> (acute - systemic effects, workers)<br>960 mg/m <sup>3</sup> (acute - local effects, workers)<br>480 mg/m <sup>3</sup> (long-term - systemic effects, workers)<br>480 mg/m <sup>3</sup> (long-term - local effects, workers) |
| <b>hydrocarbons, C9, aromatics</b>  |      |  |
| Dermal  | DNEL | 25 mg/kg bw/day (long-term - systemic effects, workers)  |
| Inhalative  | DNEL | 150 mg/m <sup>3</sup> (long-term - systemic effects, workers)  |
| <b>108-65-6 2-methoxy-1-methylethyl acetate</b>   |      |  |
| Dermal  | DNEL | 153.5 mg/kg bw/day (long-term - systemic effects, workers)   |
| Inhalative  | DNEL | 275 mg/m <sup>3</sup> (long-term - systemic effects, workers)  |
| <b>112-07-2 2-butoxyethyl acetate</b>   |      |  |
| Dermal  | DNEL | 102 mg/kg bw/day (acute - systemic effects, workers)<br>102 mg/kg bw/day (long-term - systemic effects, workers)   |
| Inhalative  | DNEL | 775 mg/m <sup>3</sup> (acute - systemic effects, workers)<br>333 mg/m <sup>3</sup> (acute - local effects, workers)<br>133 mg/m <sup>3</sup> (long-term - local effects, workers)  |
| <b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b> |      |  |
| Dermal  | DNEL | 2.5 mg/kg bw/day (acute - systemic effects, workers)<br>2.5 mg/kg bw/day (long-term - systemic effects, workers)   |
| Inhalative  | DNEL | 2.35 mg/m <sup>3</sup> (acute - systemic effects, workers)<br>2.35 mg/m <sup>3</sup> (long-term - systemic effects, workers)   |
| <b>PNECs</b>  |      |  |
| <b>1330-20-7 xylene</b>   |      |  |
| PNEC  |      | 0.327 mg/l (freshwater environment)<br>6.58 mg/l (sewage treatment plants)   |
| PNEC  |      | 12.46 mg/kg (freshwater sediment environment)<br>2.31 mg/kg (soil)   |
| <b>123-86-4 n-butyl acetate</b>   |      |  |
| PNEC  |      | 0.18 mg/l (freshwater environment)<br>0.018 mg/l (marine environment)<br>0.36 mg/l (intermittent releases)   |

(Contd. on page 9)



**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 8)

|   |  |
|---|--|
| PNEC  | 35.6 mg/l (sewage treatment plants)<br>0.981 mg/kg (freshwater sediment environment)   |
| <b>108-65-6 2-methoxy-1-methylethyl acetate</b>   |  |
| PNEC  | 0.635 mg/l (freshwater environment)<br>0.0635 mg/l (marine environment)<br>6.35 mg/l (intermittent releases)<br>100 mg/l (sewage treatment plants) |
| PNEC  | 3.29 mg/kg (freshwater sediment environment)<br>0.329 mg/kg (marine sediment environment)  |
| <b>112-07-2 2-butoxyethyl acetate</b>   |  |
| PNEC  | 0.304 mg/l (freshwater environment)<br>0.0304 mg/l (marine environment)<br>0.56 mg/l (intermittent releases)<br>90 mg/l (sewage treatment plants)  |
| PNEC  | 2.03 mg/kg (freshwater sediment environment)<br>0.203 mg/kg (marine sediment environment)<br>0.68 mg/kg (soil)                                     |
| <b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b> |  |
| PNEC  | 0.0022 mg/l (freshwater environment)<br>0.00022 mg/l (marine environment)<br>0.009 mg/l (intermittent releases)                                    |
| PNEC  | 1.05 mg/kg (freshwater sediment environment)<br>0.11 mg/kg (marine sediment environment)<br>0.21 mg/kg (soil)                                      |
| <b>Ingredients with biological limit values:</b>  |  |
| <b>1330-20-7 xylene</b>   |  |
| BMGV (Great Britain)  | 650 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: methyl hippuric acid   |

**Regulatory information** BMGV (Great Britain): EH40/2011**Additional information:** The lists valid during the making were used as basis.

(Contd. on page 10)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

---

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

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(Contd. of page 9)

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Keep ignition sources away - Do not smoke.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

**Respiratory protection:**

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.

Filter A2/P2

**Protection of hands:**

Protective gloves

Check the permeability prior to each renewed use of the glove.

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (EN 374).

**Material of gloves**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

PVA gloves

Recommended thickness of the material:  $\geq 0,7$  mm

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 6  $\geq 480$  min.

(Contd. on page 11)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

---

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**


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(Contd. of page 10)

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

**Eye protection:**

Tightly sealed goggles

**Body protection:** Protective work clothing

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\* **SECTION 9: Physical and chemical properties**


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**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Fluid           |
| <b>Colour:</b>          | Colourless      |
| <b>Odour:</b>           | Characteristic  |
| <b>Odour threshold:</b> | Not determined. |

|                  |                 |
|------------------|-----------------|
| <b>pH-value:</b> | Not applicable. |
|------------------|-----------------|

**Change in condition**

|   |                         |
|---|-------------------------|
| <b>Melting point/freezing point:</b>            | Undetermined.           |
| <b>Initial boiling point and boiling range:</b> | 124 °C<br>Undetermined. |

|                     |       |
|---------------------|-------|
| <b>Flash point:</b> | 40 °C |
|---------------------|-------|

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Flammability (solid, gas):</b> | Not applicable. |
|-----------------------------------|-----------------|

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Decomposition temperature:</b> | Not determined. |
|-----------------------------------|-----------------|

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Auto-ignition temperature:</b> | Not determined. |
|-----------------------------------|-----------------|

|                              |   |
|------------------------------|---|
| <b>Explosive properties:</b> | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
|------------------------------|---|

**Explosion limits:**

|               |            |
|---------------|------------|
| <b>Lower:</b> | 0.7 Vol %  |
| <b>Upper:</b> | 15.0 Vol % |

|                                  |          |
|----------------------------------|----------|
| <b>Vapour pressure at 20 °C:</b> | 10.7 hPa |
|----------------------------------|----------|

(Contd. on page 12)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 11)

|  |  |
|--|--|
| <b>Density:</b>                                | 0.96-0.97 g/cm <sup>3</sup>                |
| <b>Vapour density</b>                          | Not determined.                            |
| <b>Evaporation rate</b>                        | Not determined.                            |
| <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.          |
| <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| <b>Viscosity:</b>                              |  |
| <b>Dynamic at 20 °C:</b>                       | 107 mPas                                   |
| <b>Kinematic:</b>                              | Not determined.                            |
| <b>9.2 Other information</b>                   | No further relevant information available. |

**SECTION 10: Stability and reactivity****10.1 Reactivity** No decomposition if used according to specifications.**10.2 Chemical stability**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Reacts with alkali, amines and strong acids.

Reacts with oxidising agents.

Fumes can combine with air to form an explosive mixture.

**10.4 Conditions to avoid** Protect from heat and direct sunlight.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Formation of toxic gases is possible during heating or in case of fire.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****1330-20-7 xylene**

|            |     |                     |
|------------|-----|---------------------|
| Oral       | ATE | >2000 mg/kg         |
| Dermal     | ATE | 1466.67 mg/kg       |
| Inhalative | ATE | 12.09 mg/l (vapour) |

(Contd. on page 13)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 12)

| <b>123-86-4 n-butyl acetate</b>   |          |                       |
|---|----------|-----------------------|
| Oral  | LD50     | 10760 mg/kg (rat)     |
| Dermal  | LD50     | 10760 mg/kg (rat)     |
|   |          | >14000 mg/kg (rabbit) |
| Inhalative  | LC50/4 h | 23.4 mg/l (rat)       |
| <b>hydrocarbons, C9, aromatics</b>  |          |                       |
| Oral  | LD50     | 3592 mg/kg (rat)      |
| Dermal  | LD50     | >3160 mg/kg           |
| Inhalative  | LC50/4 h | > 6193 mg/l (rat)     |
| <b>108-65-6 2-methoxy-1-methylethyl acetate</b>   |          |                       |
| Oral  | LD50     | >5000 mg/kg (rat)     |
| Dermal  | LD50     | >5000 mg/kg (rabbit)  |
| Inhalative  | LC50/6 h | 4345 mg/l (rat)       |
| <b>100-41-4 ethylbenzene</b>  |          |                       |
| Inhalative  | LC50/4 h | 11 mg/l (ATE)         |
| <b>112-07-2 2-butoxyethyl acetate</b>   |          |                       |
| Oral  | LD50     | 1880 mg/kg (rat)      |
| Dermal  | LD50     | 1500 mg/kg (rabbit)   |
| Inhalative  | LC50/4 h | 11 mg/l (ATE)         |
| <b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b> |          |                       |
| Oral  | LD50     | 3230 mg/kg (rat)      |
| Dermal  | LD50     | >3170 mg/kg (rat)     |

**Primary irritant effect:****Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****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.

(Contd. on page 14)



**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 13)

**STOT-single exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.**\* SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****1330-20-7 xylene**

|           |                            |
|-----------|----------------------------|
| LC50/96 h | 2.6 mg/l (fish)            |
| IC50/72 h | 2.2 mg/l (algae)           |
| EC50/48 h | >1-10 mg/l (Daphnia magna) |
| EC50/24 h | 96 mg/l (microorganisms)   |

**123-86-4 n-butyl acetate**

|           |                               |
|-----------|-------------------------------|
| LC50/96 h | 18 mg/l (Pimephales promelas) |
| TT/16 h   | 115 mg/l (Pseudomonas putida) |
| EC50/48 h | 44 mg/l (daphnia)             |
| EC50/72 h | 675 mg/l (algae)              |

**hydrocarbons, C9, aromatics**

|             |   |
|-------------|---|
| ErC50/96 h  | 9.2 mg/l (fish)                           |
| EL50/48 h   | 3.2 mg/l (Daphnia magna)                  |
| ErL50/72 h  | 2.9 mg/l (Pseudokirchnerella subcapitata) |
| EC50/48 h   | 6.14 mg/l (Daphnia magna)                 |
| EC50/10 min | >99 mg/l (microorganisms)                 |

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

|             |   |
|-------------|---|
| LC50/96 h   | >100 mg/l (fish)                            |
| EC50/48 h   | >500 mg/l (Daphnia magna)                   |
| EC20/30 min | >1000 mg/l (microorganisms)                 |
| EC50/72 h   | >1000 mg/l (Pseudokirchnerella subcapitata) |
| EC50        | >100 mg/l (Pseudokirchnerella subcapitata)  |
|             | >100 mg/l (Pimephales promelas)             |
|             | >100 mg/l (Daphnia magna)                   |

(Contd. on page 15)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 14)

|   |  |
|---|--|
| <b>112-07-2 2-butoxyethyl acetate</b>   |  |
| EC50/72 h   | >100 mg/l (Scenedesmus subspicatus)                          |
| EC50/24 h   | >100 mg/l (Daphnia magna)                                    |
| LC50/48 h   | 10-100 mg/l (Leuciscus idus melanotus)                       |
| <b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b> |  |
| LC50/96 h   | 0.97 mg/l (fish)   |
| EC50/3 h  | >100 mg/l (microorganisms)                                   |
| EC50/72 h   | 1.68 mg/l (Desmodesmus subspicatus)                          |
| EC50/24 h   | 20 mg/l (Daphnia magna)                                      |
| <b>12.2 Persistence and degradability</b>   |  |
| <b>1330-20-7 xylene</b>   |  |
| Biodegradation  | >60 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)    |
| <b>123-86-4 n-butyl acetate</b>   |  |
| Biodegradation  | 83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)     |
| <b>hydrocarbons, C9, aromatics</b>  |  |
| Biodegradation  | 78 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)     |
| <b>108-65-6 2-methoxy-1-methylethyl acetate</b>   |  |
| Biodegradation  | 100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)     |
| <b>112-07-2 2-butoxyethyl acetate</b>   |  |
| Biodegradation  | >70 % (readily biodegradable) (OECD 301C, 28d)               |
| <b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b> |  |
| Biodegradation  | 38 % (not readily biodegradable) (OECD 301 F, 28 d, aerobic) |
| <b>12.3 Bioaccumulative potential</b>   |  |
| <b>1330-20-7 xylene</b>   |  |
| BCF   | 25.9   |
| log Pow   | 3.15   |
| <b>123-86-4 n-butyl acetate</b>   |  |
| BCF   | 15.3 (-)   |
| log Pow   | 2.3  |
| <b>108-65-6 2-methoxy-1-methylethyl acetate</b>   |  |
| log Pow   | 0.56   |

(Contd. on page 16)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 15)

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

BCF | &lt;9.7

**12.4 Mobility in soil****123-86-4 n-butyl acetate**

log Koc | 1.27

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

Koc | 1.7

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

log Koc | 5.31

Koc | 204400

**Additional ecological information:****General notes:**

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

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**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 01 11\* | waste paint and varnish containing organic solvents or other hazardous substances

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 17)



**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 16.05.2017


V- 2

Revision: 16.05.2017

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

(Contd. of page 16)

**SECTION 14: Transport information**

|  |   |
|--|---|
| <b>14.1 UN-Number</b><br>ADR, IMDG, IATA   | UN1263  |
| <b>14.2 UN proper shipping name</b><br>ADR<br>IMDG, IATA   | 1263 PAINT<br>PAINT   |
| <b>14.3 Transport hazard class(es)</b><br>ADR, IMDG, IATA  | <br>Class 3<br>Label 3 |
| <b>14.4 Packing group</b><br>ADR, IMDG, IATA   | III   |
| <b>14.5 Environmental hazards:</b><br>Marine pollutant (IMDG):                                       | No  |
| <b>14.6 Special precautions for user</b><br>Danger code (Kemler):<br>EMS Number:<br>Stowage Category | Warning: Flammable liquids.<br>30<br>F-E, <u>S</u> -E<br>A  |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>                       | Not applicable.   |
| <b>Transport/Additional information:</b>   |   |
| -----  |   |
| <b>ADR</b><br>Limited quantities (LQ)<br>Transport category<br>Tunnel restriction code               | 5L<br>3<br>D/E  |
| -----  |   |
| <b>IMDG</b><br>Limited quantities (LQ)   | 5L  |
| <b>UN "Model Regulation":</b>  | UN 1263 PAINT, 3, III   |

(Contd. on page 18)



**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

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**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

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(Contd. of page 17)

**\* 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**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**National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**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.

**Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

(Contd. on page 19)



**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 16.05.2017

V- 2

Revision: 16.05.2017

---

**Trade name: Q 70-105 2K MS AS Clearcoat 2:1**

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(Contd. of page 18)

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

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

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

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Sensitisation - Skin. Hazard Category 1

Skin Sens. 1A: Sensitisation - Skin. Hazard Category 1A

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute 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

**Sources** European Chemicals Agency, <http://echa.europa.eu/>**\* Data compared to the previous version altered.**