

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - Austria / Germany

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

#### 1.1 Product identifier

Product name : Hempel's Curing Agent 98140  
Product identity : 9814000000, 00138862  
Product type : Curing agent

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

Field of application : used only as part of two- or multi component products.  
Ready-for-use mixture : (see base component)  
Identified uses : Industrial applications, Used by spraying.

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

Company details : Hempel (Germany) GmbH  
Haderslebener Straße 9  
25421 Pinneberg  
Tel. (0 41 01) 70 70  
Fax. (0 41 01) 70 71 31  
hempel@hempel.com

Date of issue : 6 March 2025  
Date of previous issue : 20 November 2023.

#### 1.4 Emergency telephone number

(0 41 01) 70 70 (08.00 - 17.00)  
Austria: Vergiftungsinformationszentrale  
+43 1 406 43 43 (24 hrs)  
Switzerland: Swiss Toxicological Information Centre  
+41 44 251 51 51 (in Switzerland dial 145) (24 hrs)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

|                     |                                    |
|---------------------|------------------------------------|
| Flam. Liq. 3, H226  | FLAMMABLE LIQUIDS                  |
| Acute Tox. 4, H332  | ACUTE TOXICITY (inhalation)        |
| Skin Corr. 1C, H314 | SKIN CORROSION/IRRITATION          |
| Eye Dam. 1, H318    | SERIOUS EYE DAMAGE/ EYE IRRITATION |
| Skin Sens. 1, H317  | SKIN SENSITIZATION                 |

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms :



Signal word : Danger  
Hazard statements : H226 - Flammable liquid and vapor.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H332 - Harmful if inhaled.

Precautionary statements :

Prevention : Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Response : IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Hazardous ingredients : ☒ xylene  
benzyl alcohol  
2,4,6-tris(dimethylaminomethyl)phenol  
ethylbenzene  
3,6-diazaoctanethylenediamin

Special packaging requirements

### SECTION 2: Hazards identification

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

#### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

| Product/ingredient name  | Identifiers   | %         | Regulation (EC) No. 1272/2008 [CLP]  | Type  |
|--|---|-----------|--|---|
| xylene   | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315                                  | ATE [Dermal] = 1100 mg/kg<br>ATE [Inhalation (gases)] = 5000 ppm<br>[1] [2] |
| benzyl alcohol   | REACH #: 01-2119492630-38<br>EC: 202-859-9<br>CAS: 100-51-6<br>Index: 603-057-00-5  | ≥10 - ≤25 | Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317  | ATE [Oral] = 1200 mg/kg<br>[1]  |
| 2,4,6-tris(dimethylaminomethyl) phenol                               | REACH #: 01-2119560597-27<br>EC: 202-013-9<br>CAS: 90-72-2                          | ≥5 - ≤10  | Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318  | ATE [Oral] = 1200 mg/kg<br>[1]  |
| ethylbenzene   | REACH #: 01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≥3 - ≤5   | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)<br>Asp. Tox. 1, H304                   | ATE [Inhalation (gases)] = 4500 ppm<br>[1] [2]                              |
| 3,6-diazaoctanethylenediamin   | REACH #: 01-2119487919-13<br>EC: 203-950-6<br>CAS: 112-24-3<br>Index: 612-059-00-5  | ≥1 - ≤3   | Acute Tox. 3, H311<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412         | ATE [Dermal] = 550 mg/kg<br>[1]   |
| bis[(dimethylamino)methyl] phenol                                    | EC: 275-162-0<br>CAS: 71074-89-0  | ≥1 - ≤3   | Skin Corr. 1C, H314<br>Eye Dam. 1, H318  | -<br>[1]  |
| toluene  | REACH #: 01-2119471310-51<br>EC: 203-625-9<br>CAS: 108-88-3<br>Index: 601-021-00-3  | ≤0.3      | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 | -<br>[1] [2]  |
| See Section 16 for the full text of the H statements declared above. |   |           |  |   |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit, see section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate treatment (first aid).

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention/advice.

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Give nothing by mouth. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately.

### SECTION 4: First aid measures

|                              |   |
|------------------------------|---|
| Skin contact :               | Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. In case of burns flush with water until the pain ceases. While flushing remove clothing from the affected area unless it is burnt into the skin. If hospital treatment is necessary flushing must continue during transfer and until the hospital staff takes over the treatment.      |
| Ingestion :                  | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat.  |
| Protection of first-aiders : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

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

##### Potential acute health effects

|                |   |
|----------------|---|
| Eye contact :  | Causes serious eye damage.                                |
| Inhalation :   | Harmful if inhaled.                                       |
| Skin contact : | Causes severe burns. May cause an allergic skin reaction. |
| Ingestion :    | No known significant effects or critical hazards.         |

##### Over-exposure signs/symptoms

|                |  |
|----------------|--|
| Eye contact :  | Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
| Inhalation :   | No specific data.  |
| Skin contact : | Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
| Ingestion :    | Adverse symptoms may include the following:<br>stomach pains   |

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

|                       |  |
|-----------------------|--|
| Notes to physician :  | If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments : | No specific treatment.   |

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

|                       |   |
|-----------------------|---|
| Extinguishing media : | Recommended: alcohol resistant foam, CO <sub>2</sub> , powders, water spray.<br>Not to be used: waterjet. |
|-----------------------|---|

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

|   |   |
|---|---|
| Hazards from the substance or mixture : | Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| Hazardous combustion products :         | Decomposition products may include the following materials: carbon oxides nitrogen oxides   |

#### 5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.  
Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

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

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.


### 7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.


## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters



#### Occupational exposure limits

| Product/ingredient name  | Exposure limit values  |
|--|--|
|  xylene | <b>TRGS 900 OEL (Germany, 6/2024) [Xylol]</b> Absorbed through skin.<br>TWA 8 hours: 220 mg/m <sup>3</sup> .<br>PEAK 15 minutes: 440 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>PEAK 15 minutes: 100 ppm.<br><b>DFG MAC-values list (Germany, 7/2023) [Xylene]</b> Develop D. Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].<br>TWA 8 hours: 220 mg/m <sup>3</sup> .<br>PEAK 15 minutes: 440 mg/m <sup>3</sup> 4 times per shift [Interval: 1 hour].<br><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 221 mg/m <sup>3</sup> .<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 442 mg/m <sup>3</sup> . |
| benzyl alcohol   |  |

### SECTION 8: Exposure controls/personal protection

|  |  |
|--|--|
| ethylbenzene   | <p><b>TRGS 900 OEL (Germany, 6/2024)</b> Absorbed through skin.<br/>           PEAK 15 minutes: 10 ppm.<br/>           PEAK 15 minutes: 44 mg/m<sup>3</sup>.<br/>           TWA 8 hours: 22 mg/m<sup>3</sup>.<br/>           TWA 8 hours: 5 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2023)</b> Develop C. Absorbed through skin.<br/>           PEAK 15 minutes: 44 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].<br/>           PEAK 15 minutes: 10 ppm 4 times per shift [Interval: 1 hour].<br/>           TWA 8 hours: 22 mg/m<sup>3</sup>.<br/>           TWA 8 hours: 5 ppm.</p> <p><b>TRGS 900 OEL (Germany, 6/2024)</b> Absorbed through skin.<br/>           TWA 8 hours: 88 mg/m<sup>3</sup>.<br/>           PEAK 15 minutes: 176 mg/m<sup>3</sup>.<br/>           TWA 8 hours: 20 ppm.<br/>           PEAK 15 minutes: 40 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2023)</b> Carc 4, Develop C. Absorbed through skin.<br/>           PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour].<br/>           PEAK 15 minutes: 176 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].<br/>           TWA 8 hours: 88 mg/m<sup>3</sup>.<br/>           TWA 8 hours: 20 ppm.</p> <p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.<br/>           TWA 8 hours: 100 ppm.<br/>           TWA 8 hours: 442 mg/m<sup>3</sup>.<br/>           STEL 15 minutes: 200 ppm.<br/>           STEL 15 minutes: 884 mg/m<sup>3</sup>.</p> |
| 3,6-diazaoctanethylenediamin<br> xylene | <p><b>DFG MAC-values list (Germany, 7/2023)</b> Skin sensitizer.</p> <p><b>Regulation on Limit Values - MAC (Austria, 4/2021)</b> [Xylol (alle Isomeren, rein)]<br/>           PEAK 15 minutes: 442 mg/m<sup>3</sup> 4 times per shift.<br/>           TWA 8 hours: 50 ppm.<br/>           PEAK 15 minutes: 100 ppm 4 times per shift.<br/>           TWA 8 hours: 221 mg/m<sup>3</sup>.</p> <p><b>EU OEL (Europe, 1/2022)</b> [xylene, mixed isomers] Absorbed through skin.<br/>           TWA 8 hours: 50 ppm.<br/>           TWA 8 hours: 221 mg/m<sup>3</sup>.<br/>           STEL 15 minutes: 100 ppm.<br/>           STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>   |
| ethylbenzene   | <p><b>Regulation on Limit Values - MAC (Austria, 4/2021)</b> Absorbed through skin.<br/>           TWA 8 hours: 100 ppm.<br/>           TWA 8 hours: 440 mg/m<sup>3</sup>.<br/>           CEIL 5 minutes: 200 ppm 8 times per shift.<br/>           CEIL 5 minutes: 880 mg/m<sup>3</sup> 8 times per shift.</p> <p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.<br/>           TWA 8 hours: 100 ppm.<br/>           TWA 8 hours: 442 mg/m<sup>3</sup>.<br/>           STEL 15 minutes: 200 ppm.<br/>           STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>   |

### Biological exposure indices

| Product/ingredient name  | Exposure limit values  |
|--|--|
|  xylene<br><br>ethylbenzene<br><br> xylene | <p><b>DFG BEI-values list (Germany, 7/2023)</b> [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228).<br/>           BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>TRGS 903 - BEI Values (Germany, 2/2024)</b> [Xylene (all isomers)]<br/>           BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>DFG BEI-values list (Germany, 7/2023)</b> Notes: danger from percutaneous absorption (see p. 211 and p. 228).<br/>           BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>TRGS 903 - BEI Values (Germany, 2/2024)</b><br/>           BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>VGU BEI (Austria, 9/2020)</b> [xylenes]<br/>           BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year.<br/>           BEI Fitness: 1.5 g/l, methylhippuric acid [in urine]. Sampling time: one year.</p> |

### Recommended monitoring procedures

### SECTION 8: Exposure controls/personal protection

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Derived effect levels

| Product/ingredient name               | Type - Population - Exposure            | Value                  | Effects           |
|---------------------------------------|---|------------------------|-------------------|
| xylene                                | DNEL - Workers - Long term - Inhalation | 77 mg/m <sup>3</sup>   | Effects: Systemic |
| benzyl alcohol                        | DNEL - Workers - Long term - Dermal     | 212 mg/kg bw/day       | Effects: Systemic |
| 2,4,6-tris(dimethylaminomethyl)phenol | DNEL - Workers - Long term - Inhalation | 22 mg/m <sup>3</sup>   | Effects: Systemic |
| ethylbenzene                          | DNEL - Workers - Long term - Dermal     | 8 mg/kg bw/day         | Effects: Systemic |
| 3,6-diazaoctanethylenediamin          | DNEL - Workers - Long term - Inhalation | 0.53 mg/m <sup>3</sup> | Effects: Systemic |
| toluene                               | DNEL - Workers - Long term - Dermal     | 0.15 mg/kg bw/day      | Effects: Systemic |
|                                       | DNEL - Workers - Long term - Inhalation | 180 mg/kg bw/day       | Effects: Systemic |
|                                       | DNEL - Workers - Long term - Dermal     | 77 mg/m <sup>3</sup>   | Effects: Systemic |
|                                       | DNEL - Workers - Long term - Inhalation | 0.57 mg/kg bw/day      | Effects: Systemic |
|                                       | DNEL - Workers - Long term - Dermal     | 1 mg/m <sup>3</sup>    | Effects: Systemic |
|                                       | DNEL - Workers - Long term - Inhalation | 384 mg/kg bw/day       | Effects: Systemic |
|                                       | DNEL - Workers - Long term - Dermal     | 192 mg/m <sup>3</sup>  | Effects: Systemic |

#### Predicted effect concentrations

| Product/ingredient name               | Compartment Detail                          | Value           |
|---------------------------------------|---|-----------------|
| xylene                                | Fresh water                                 | 0.327 mg/l      |
|                                       | Marine water                                | 0.327 mg/l      |
|                                       | Fresh water sediment                        | 12.46 mg/kg     |
|                                       | Marine water sediment                       | 12.46 mg/kg     |
|                                       | Soil  | 2.31 mg/kg      |
| benzyl alcohol                        | Sewage Treatment Plant                      | 6.68 mg/l       |
|                                       | Soil - Assessment Factors                   | 0.456 mg/kg wwt |
|                                       | Sewage Treatment Plant - Assessment Factors | 39 mg/l         |
|                                       | Sediment - Assessment Factors               | 5.27 mg/kg wwt  |
|                                       | Marine water sediment - Assessment Factors  | 0.527 mg/kg wwt |
|                                       | Marine - Assessment Factors                 | 0.1 mg/l        |
| 2,4,6-tris(dimethylaminomethyl)phenol | Fresh water - Assessment Factors            | 1 mg/l          |
|                                       | Fresh water                                 | 0.084 mg/l      |
|                                       | Marine water                                | 0.0084 mg/l     |
| ethylbenzene                          | Sewage Treatment Plant                      | 0.2 mg/l        |
|                                       | Fresh water                                 | 0.1 mg/l        |
|                                       | Marine water                                | 0.01 mg/l       |
|                                       | Sewage Treatment Plant                      | 9.6 mg/l        |
|                                       | Fresh water sediment                        | 13.7 mg/kg      |
| 3,6-diazaoctanethylenediamin          | Soil  | 2.68 mg/kg      |
|                                       | Fresh water                                 | 190 µg/l        |
|                                       | Fresh water sediment                        | 95.9 mg/kg      |
|                                       | Marine water                                | 38 µg/l         |
|                                       | Marine water sediment                       | 19.2 mg/kg      |
|                                       | Soil  | 19.1 mg/kg      |
| toluene                               | Sewage Treatment Plant                      | 4.25 mg/l       |
|                                       | Fresh water                                 | 0.68 mg/l       |
|                                       | Marine water                                | 0.68 mg/l       |
|                                       | Sewage Treatment Plant                      | 13.61 mg/l      |
|                                       | Fresh water sediment                        | 16.39 mg/kg     |
|                                       | Marine water sediment                       | 16.39 mg/kg     |
|                                       | Soil  | 2.89 mg/kg      |

### 8.2 Exposure controls

#### Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

#### Individual protection measures

General :

Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure. Where personal protection equipment is required this shall be chosen in accordance with German BGR regulations of the "Berufsgenossenschaften".



### SECTION 8: Exposure controls/personal protection

|                          |   |
|--------------------------|---|
| Hygiene measures :       | Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.   |
| Eye/face protection :    | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.  |
| Hand protection :        | <p>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.</p> <p>Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:</p> <p>Recommended: polyvinyl alcohol (PVA), Silver Shield / Barrier / 4H gloves, Viton®<br/> May be used: butyl rubber (&gt;0.5 mm), nitrile rubber (&gt;0.3 mm)<br/> Short term exposure: neoprene rubber (&gt;0.1 mm), natural rubber (latex) (&gt;0.4 mm), polyvinyl chloride (PVC), butyl rubber (&gt;0.3 mm), nitrile rubber (&gt;0.1 mm)</p> |
| Body protection :        | <p>Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.</p> <p>Wear suitable protective clothing. Always wear protective clothing when spraying.</p> <p>Chemical-resistant apron.</p>  |
| Respiratory protection : | <p>When the product is applied by spraying and for continuous or prolonged work always wear an air-fed respirator e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. (EN140) Be sure to use an approved/certified respirator or equivalent.</p>  |

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

| Physical state :                      | Liquid.   |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
|---------------------------------------|---|-----------------|------------------------|------------------------|--------|---------------------------------------|-----|-------|-----------------|-------|-----|--------|-------|-----|--------|--------|-----|------|--|--|--|--|
| Color :                               | Transparent   |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Odor :                                | Solvent-like  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| pH :                                  | Testing not relevant or not possible due to nature of the product.  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Melting point/freezing point :        | Testing not relevant or not possible due to nature of the product.  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Boiling point/boiling range :         | Testing not relevant or not possible due to nature of the product.  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Flash point :                         | Closed cup: 23°C (73.4°F)   |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Evaporation rate :                    | Testing not relevant or not possible due to nature of the product.  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Flammability :                        | Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.   |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Vapor pressure :                      | <table><tr><th></th><th colspan="3">Vapor Pressure at 20°C</th><th colspan="3">Vapor pressure at 50°C</th></tr><tr><th>Ingredient name</th><th>mm Hg</th><th>kPa</th><th>Method</th><th>mm Hg</th><th>kPa</th><th>Method</th></tr><tr><td>Xylene</td><td>6.7</td><td>0.89</td><td></td><td></td><td></td><td></td></tr></table> |                 | Vapor Pressure at 20°C |                        |        | Vapor pressure at 50°C                |     |       | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method | Xylene | 6.7 | 0.89 |  |  |  |  |
|                                       | Vapor Pressure at 20°C  |                 |                        | Vapor pressure at 50°C |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Ingredient name                       | mm Hg   | kPa             | Method                 | mm Hg                  | kPa    | Method                                |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Xylene                                | 6.7   | 0.89            |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Vapor density :                       | Not available.  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Specific gravity :                    | 0.96 g/cm³  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Partition coefficient (LogKow) :      | Testing not relevant or not possible due to nature of the product.  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Auto-ignition temperature :           | <table><tr><th>Ingredient name</th><th>°C</th><th>°F</th><th>Method</th></tr><tr><td>2,4,6-tris(dimethylaminomethyl)phenol</td><td>382</td><td>719.6</td><td>EU A.15</td></tr></table>  | Ingredient name | °C                     | °F                     | Method | 2,4,6-tris(dimethylaminomethyl)phenol | 382 | 719.6 | EU A.15         |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Ingredient name                       | °C  | °F              | Method                 |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| 2,4,6-tris(dimethylaminomethyl)phenol | 382   | 719.6           | EU A.15                |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Decomposition temperature :           | Testing not relevant or not possible due to nature of the product.  |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |
| Viscosity :                           | Aspiration hazard (H304) Not classified. Testing not relevant due to nature of the product.   |                 |                        |                        |        |                                       |     |       |                 |       |     |        |       |     |        |        |     |      |  |  |  |  |

### SECTION 9: Physical and chemical properties

|                        |   |
|------------------------|---|
| Explosive properties : | Slightly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. |
| Oxidizing properties : | Testing not relevant or not possible due to nature of the product.  |

#### 9.2 Other information

|                          |                              |
|--------------------------|------------------------------|
| Solvent(s) % by weight : | Weighted average: 45 %       |
| Water % by weight :      | Weighted average: 0 %        |
| VOC content :            | 310.3 g/l                    |
| TOC Content :            | Weighted average: 281 g/l    |
| Solvent Gas :            | Weighted average: 0.097 m³/l |

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

The product is stable.

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

#### 10.5 Incompatible materials

Extremely reactive or incompatible with the following materials: acids.

Highly reactive or incompatible with the following materials: oxidizing materials.

Reactive or incompatible with the following materials: reducing materials and organic materials.

#### 10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides nitrogen oxides

### SECTION 11: Toxicological information

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

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

Inhalation of a corrosive substance may result in health effects such as stinging, coughing and in extreme cases, dyspnoea or loss of consciousness with a risk of lung damage, possibly lung oedema. Cauterization of skin and mucous membrane. If splashed in the eyes, the liquid may cause irreversible damage. Accidental swallowing may cause stinging and cauterization to mouth, oesophagus and stomach. Symptoms and signs include bloody vomiting, chock and loss of consciousness.

Direct contact with the eyes can cause irreversible damage, including blindness.

#### Acute toxicity



### SECTION 11: Toxicological information

| Product/ingredient name  | Result   | Dose / Exposure   | Effects   |
|--|--|---|---|
| <div> <div></div> <div>                     xylene<br/><br/>benzyl alcohol<br/><br/>2,4,6-tris(dimethylaminomethyl)phenol<br/><br/>ethylbenzene<br/><br/>3,6-diazaoctanethylenediamin<br/><br/>toluene                 </div> </div> | Rabbit - Dermal - LD50<br>Rat - Oral - LD50<br>Rat - Inhalation - LC50 Vapor<br>Rat - Inhalation - LC50 Gas.<br>Rat - Oral - LD50<br>Rat - Inhalation - LC50 Dusts and mists<br>Rat - Oral - LD50<br><br>Rat - Oral - LD50<br>Rabbit - Dermal - LD50<br>Rat - Oral - LD50<br><br>Rabbit - Dermal - LD50<br>Rabbit - Dermal - LD50<br>Rat - Oral - LD50<br>Rat - Oral - LD50<br>Rat - Inhalation - LC50 Vapor | >4200 mg/kg<br>3523 mg/kg<br>6350 ppm [4 hours]<br>5000 ppm [4 hours]<br>1230 mg/kg<br>>4178 mg/m <sup>3</sup> [4 hours]<br><br>1200 mg/kg<br><br>2169 mg/kg<br>1465 mg/kg<br>3500 mg/kg<br><br>>5000 mg/kg<br>550 mg/kg<br>1716 mg/kg<br>636 mg/kg<br>>20 mg/l [4 hours] | Toxic effects: Peripheral Nerve and Sensation - Flaccid paralysis without anesthesia (usually neuromuscular blockage) Lung, Thorax, or Respiration - Dyspnea<br><br>Toxic effects: Liver - Other changes<br>Kidney, Ureter, and Bladder - Other changes |

#### Acute toxicity estimates

| Product/ingredient name  | Oral mg/kg                             | Dermal mg/kg                      | Inhalation (gases) ppm          | Inhalation (vapors) mg/l | Inhalation (dusts and mists) mg/l |
|--|--|-----------------------------------|---------------------------------|--------------------------|-----------------------------------|
| <div> <div></div> <div>                     Hempel's Curing Agent 98140<br/>                     xylene<br/>                     benzyl alcohol<br/>                     2,4,6-tris(dimethylaminomethyl)phenol<br/>                     ethylbenzene<br/>                     3,6-diazaoctanethylenediamin                 </div> </div> | 5638.1<br>3523<br>1200<br>1200<br>3500 | 4362.4<br>1100<br><br><br><br>550 | 18040.9<br>5000<br><br><br>4500 | 236.5<br><br><br><br>11  |                                   |

#### Irritation/Corrosion

| Product/ingredient name  | Result  | Species   | Exposure   |
|--|---|---|--|
| <div> <div></div> <div>                     xylene<br/><br/>benzyl alcohol<br/><br/>2,4,6-tris(dimethylaminomethyl)phenol<br/><br/>ethylbenzene<br/><br/>3,6-diazaoctanethylenediamin<br/><br/>toluene                 </div> </div> | Rabbit - Eyes - Severe irritant<br><br>Rabbit - Skin - Moderate irritant<br><br>Rabbit - Skin - Irritant<br>Rabbit - Eyes - Visible necrosis<br>Rabbit - Skin - Mild irritant<br>Rabbit - Eyes - Severe irritant<br><br>Rabbit - Skin - Severe irritant<br><br>Rabbit - Skin - Mild irritant<br><br>Rabbit - Respiratory - Mild irritant<br>Rabbit - Eyes - Mild irritant<br>Rabbit - Eyes - Moderate irritant<br><br>Rabbit - Skin - Severe irritant<br><br>Rabbit - Eyes - Mild irritant<br>Rabbit - Skin - Moderate irritant | Duration of treatment/ exposure: 24 hours<br>Duration of treatment/ exposure: 24 hours<br><br>Duration of treatment/ exposure: 24 hours<br>Duration of treatment/ exposure: 24 hours<br>Duration of treatment/ exposure: 24 hours<br><br>Duration of treatment/ exposure: 24 hours<br>Duration of treatment/ exposure: 24 hours<br>Duration of treatment/ exposure: 24 hours<br>Duration of treatment/ exposure: 0.5 minutes<br>Duration of treatment/ exposure: 24 hours | Amount/concentration applied: 5 milligrams<br>Amount/concentration applied: 500 milligrams<br><br>Amount/concentration applied: 50 Micrograms<br>Amount/concentration applied: 2 milligrams<br>Amount/concentration applied: 15 milligrams<br><br>Amount/concentration applied: 20 milligrams<br>Amount/concentration applied: 5 milligrams<br>Amount/concentration applied: 100 mg<br>Amount/concentration applied: 20 mg |

#### Sensitizer

| Product/ingredient name  | Species - Route of exposure | Result              |
|--|-----------------------------|---------------------|
| <div> <div></div> <div>                     3,6-diazaoctanethylenediamin                 </div> </div> | Guinea pig - skin           | Result: Sensitizing |

#### Mutagenic effects

No known data available in our database.

#### Carcinogenicity

### SECTION 11: Toxicological information

No known data available in our database.

#### Reproductive toxicity

No known data available in our database.

#### Specific target organ toxicity (single exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs    |
|-------------------------|------------|-------------------|------------------|
| toluene                 | Category 3 |                   | Narcotic effects |

#### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene            | Category 2 | -                 | hearing organs |
| toluene                 | Category 2 | -                 | -              |

#### Aspiration hazard

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| ethylbenzene            | ASPIRATION HAZARD - Category 1 |
| toluene                 | ASPIRATION HAZARD - Category 1 |

#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential chronic health effects

No known significant effects or critical hazards.

#### 11.2 Information on other hazards

Endocrine disrupting properties : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

Other information : No additional known significant effects or critical hazards.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Do not allow to enter drains or watercourses.

| Product/ingredient name                | Result                       | Species  | Exposure                |
|--|------------------------------|--|-------------------------|
| benzyl alcohol                         | Acute - LC50                 | Fish   | 460 mg/l [96 hours]     |
|  | Acute - EC50                 | Daphnia  | 230 mg/l [48 hours]     |
| 2,4,6-tris(dimethylaminomethyl) phenol | Acute - IC50                 | Algae  | 770 mg/l [72 hours]     |
|  | Acute - EC50                 | Algae  | 84 mg/l [72 hours]      |
| ethylbenzene                           | Acute - LC50                 | Fish   | 175 mg/l [96 hours]     |
|  | Chronic - NOEC - Fresh water | Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> | <1000 µg/l [96 hours]   |
| 3,6-diazaoctanethylenediamin           | Acute - EC50                 | Daphnia  | 31.1 mg/l [48 hours]    |
|  | Acute - EC50                 | Algae  | 20 mg/l [72 hours]      |
|  | Acute - LC50                 | Fish   | 330 mg/l [96 hours]     |
| toluene                                | Chronic - NOEC - Fresh water | Daphnia - Water flea - <i>Daphnia magna</i>                  | 1000 µg/l [21 days]     |
|  | Chronic - NOEC - Fresh water | Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> | <500000 µg/l [96 hours] |

#### 12.2 Persistence and degradability

| Product/ingredient name                | Test   | Result                       |
|--|--|------------------------------|
| xylene                                 | OECD Ready Biodegradability - Manometric Respirometry Test | >60% [28 days] - Readily     |
| benzyl alcohol                         | OECD Ready Biodegradability - Modified MITI Test (I)       | 90 - 98% [28 days] - Readily |
|  | OECD Ready Biodegradability - DOC Die-Away Test            | 92 - 96% [14 days] - Readily |
| 2,4,6-tris(dimethylaminomethyl) phenol | OECD Ready Biodegradability - Closed Bottle Test           | 95 - 97% [21 days] - Readily |
| ethylbenzene                           |  | 4% [28 days] - Not readily   |
| toluene                                |  | >70% [28 days] - Readily     |
|  |  | 100% [14 days] - Readily     |

### SECTION 12: Ecological information

| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability  |
|--|-------------------|------------|---|
| xylene<br>benzyl alcohol<br>2,4,6-tris(dimethylaminomethyl)phenol<br>phenol<br>ethylbenzene<br>toluene |                   |            | Readily<br>Readily<br>Not readily<br><br>Readily<br>Readily |

#### 12.3 Bioaccumulative potential

| Product/ingredient name  | LogP <sub>ow</sub>                                   | BCF                                     | Potential                              |
|--|--|---|--|
| xylene<br>benzyl alcohol<br>2,4,6-tris(dimethylaminomethyl)phenol<br>ethylbenzene<br>3,6-diazaoctanethylenediamin<br>toluene | 3.12<br>0.87<br>0.219<br>3.6<br>-1.66 - -1.4<br>2.73 | 8.1 - 25.9<br>1.37<br>-<br>-<br>-<br>90 | Low<br>Low<br>Low<br>Low<br>Low<br>Low |


#### 12.4 Mobility in soil

##### Soil/Water partition coefficient

| Product/ingredient name  | logK <sub>oc</sub>                          | K <sub>oc</sub>   |
|--|---|---|
| xylene<br>benzyl alcohol<br>2,4,6-tris(dimethylaminomethyl)phenol<br>ethylbenzene<br>3,6-diazaoctanethylenediamin<br>toluene | 1.59<br>1.1<br>2.72<br>2.23<br>1.53<br>2.07 | 39<br>12.6442<br>525.589<br>170.406<br>33.6474<br>117.115 |

##### Results of PMT and vPvM assessment

| Product/ingredient name  | PMT                                    | P                                      | M  | T  | vPvM                                   | vP                                     | vM  |
|--|--|--|--|--|--|--|---|
| xylene<br>benzyl alcohol<br>2,4,6-tris(dimethylaminomethyl)phenol<br>ethylbenzene<br>3,6-diazaoctanethylenediamin<br>bis[(dimethylamino)methyl]phenol<br>toluene | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes | No<br>No<br>No<br>Yes<br>No<br>No<br>Yes | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No | Yes<br>Yes<br>No<br>No<br>Yes<br>No<br>No |

Mobility :  The product does not meet the criteria to be considered as a PMT or vPvM.


#### 12.5 Results of PBT and vPvB assessment

##### Regulation (EC) No. 1907/2006 [REACH]

| Product/ingredient name  | PBT                                    | P                                      | B                                      | T  | vPvB                                   | vP                                     | vB                                     |
|--|--|--|--|--|--|--|--|
| xylene<br>benzyl alcohol<br>2,4,6-tris(dimethylaminomethyl)phenol<br>ethylbenzene<br>3,6-diazaoctanethylenediamin<br>bis[(dimethylamino)methyl]phenol<br>toluene | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>Yes<br>No<br>No<br>Yes | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No |

##### Regulation (EC) No. 1272/2008 [CLP]

| Product/ingredient name  | PBT                                    | P                                      | B                                      | T  | vPvB                                   | vP                                     | vB                                     |
|--|--|--|--|--|--|--|--|
| xylene<br>benzyl alcohol<br>2,4,6-tris(dimethylaminomethyl)phenol<br>ethylbenzene<br>3,6-diazaoctanethylenediamin<br>bis[(dimethylamino)methyl]phenol<br>toluene | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>Yes<br>No<br>No<br>Yes | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No |

Conclusion/Summary :  The product does not meet the criteria to be considered as a PBT or vPvB.

#### 12.6 Endocrine disrupting properties

### SECTION 12: Ecological information

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.

European waste catalogue (EWC) : 08 01 11\*







#### Packaging

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Empty containers or liners may retain some product residues.

### SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

|                      | 14.1<br>UN / ID no. | 14.2<br>Proper shipping name                 | 14.3<br>Transport hazard class(es)  | 14.4<br>PG* | 14.5<br>Env* | Additional information                 |
|----------------------|---------------------|--|---|-------------|--------------|--|
| <b>ADR/RID Class</b> | UN3469              | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE | 3<br>8<br>  | III         | No.          | <u>Tunnel code</u> (D/E)               |
| <b>IMDG Class</b>    | UN3469              | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE | 3<br>8<br>  | III         | No.          | <u>Emergency schedules</u><br>F-E, S-C |
| <b>IATA Class</b>    | UN3469              | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE | 3<br>8<br>  | III         | No.          | -                                      |

PG\* : Packing group

Env.\* : Environmental hazards

#### 14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization - Substances of very high concern

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.


#### Other EU regulations

##### Seveso category

This product is controlled under the Seveso III Directive.

### SECTION 15: Regulatory information

#### Seveso category

 Sc: Flammable liquids 2 and 3 not falling under P5a or P5b

#### National regulations

##### Austria

VbF class : A II  
Very dangerous flammable liquid.

Limitation of the use of organic solvents : Permitted.

##### Germany

Storage code : 3  
Hazardous incident ordinance : This product is controlled under the Germany Hazardous Incident Ordinance.  
Hazard class for water : 2  
Technical instruction on air quality control :

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

References : **Other Rules:**  
- BGR 190 (Rules for the use of respiratory protective equipment)  
- BGR 192 (Rules for the use of eye and face protection)  
- BGR 195 (Rules for the use of gloves)

##### Switzerland

VOC content : 29.1 % (w/w)

#### National regulations Non-GHS


| List name           | Product/ingredient name | Name on list | Classification | Notes |
|---------------------|-------------------------|--------------|----------------|-------|
| DFG MAC-values list | ethylbenzene            | Ethylbenzene | K3, M3         | -     |


### 15.2 Chemical Safety Assessment

-

### SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
EUH statement = CLP-specific Hazard statement  
RRN = REACH Registration Number  
DNEL = Derived No Effect Level  
PNEC = Predicted No Effect Concentration

Full text of abbreviated H statements :  H225 Highly flammable liquid and vapor.  
H226 Flammable liquid and vapor.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS] :  Acute Tox. 3 ACUTE TOXICITY - Category 3  
Acute Tox. 4 ACUTE TOXICITY - Category 4  
Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3  
Asp. Tox. 1 ASPIRATION HAZARD - Category 1  
Eye Dam. 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2  
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3  
Repr. 2 TOXIC TO REPRODUCTION - Category 2

### SECTION 16: Other information

|               |   |
|---------------|---|
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B                         |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C                         |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1  | SKIN SENSITIZATION - Category 1                                 |
| Skin Sens. 1B | SKIN SENSITIZATION - Category 1B                                |
| STOT RE 2     | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| STOT SE 3     | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3   |

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification                     | Justification         |
|------------------------------------|-----------------------|
| FLAMMABLE LIQUIDS                  | On basis of test data |
| ACUTE TOXICITY (inhalation)        | Calculation method    |
| SKIN CORROSION/IRRITATION          | Calculation method    |
| SERIOUS EYE DAMAGE/ EYE IRRITATION | Calculation method    |
| SKIN SENSITIZATION                 | Calculation method    |

#### Notice to reader

➤ Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical performance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.



# Safe Use of Mixture Information

## Hempel's Curing Agent 98140



This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Indoor or outdoor spray painting by professionals or with brush, roller, putty knife, dipping etc. with good general room ventilation

**This safe use information is linked to** : Professional spray painting and/or low-energy painting, Substance-specific TETA

**Sector(s) of use** : Industrial uses - Professional uses

**Product category(ies)** : Coatings and paints, thinners, paint removers

### Operational conditions

**Place of use** : Indoor or outdoor use

**Range of application/Process conditions** : Assumes a good standard of occupational hygiene and safety management has been implemented.

### Risk management measures (RMM)

| Contributing activity   | Process category (ies) | Maximum duration  | Ventilation                              |       | Respiratory  | Eye                                     | Hands  |
|---|------------------------|-------------------|--|-------|--|---|--|
|   |                        |                   | Type and air changes per hour            |       |  |   |  |
| Preparation of material for application                                     | PROC05                 | 1 to 4 hours      | Good general room ventilation - Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. |
| Loading of application equipment and handling of coated parts before curing | PROC08a                | 1 to 4 hours      | Good general room ventilation - Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. |
| Professional application of coatings by brush or roller                     | PROC10                 | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. |
| Professional application of coatings by spraying                            | PROC11                 | 3 hours           | Good general room ventilation - Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. |
| Industrial application of coatings by spraying                              | PROC07                 | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. |
| Film formation - force drying, stoving and other technologies               | PROC04                 | More than 4 hours | Good general room ventilation - Outdoors | 3 - 5 | None   | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374.  |
| Cleaning  | PROC05                 | 1 to 4 hours      | Good general room ventilation - Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. |
| Waste management  | PROC08a                | 1 to 4 hours      | Good general room ventilation - Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. |

See section 8 of this Safety Data Sheet for specifications.

