

**Trade name:** einZA Härter LawiDox, für Epoxidharz-Grundierung AgBB**Product no.:** 0072725**Current version :** 2.0.0, issued: 11.06.2020**Replaced version:** 1.0.0, issued: 27.03.2017**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**einZA Härter LawiDox, für Epoxidharz-Grundierung AgBB****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**Epoxy resin  
Hardener**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**einZA Farben GmbH & Co KG  
Junkersstraße 13  
30179 HannoverTelephone no. +49 (0)511 67490-0  
Fax no. +49 (0)511 67490-20  
e-mail info@einZA.com**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**For medical advice (in German and English):  
+49 (0)551 192 40 (Giftinformationszentrum Nord)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**Acute Tox. 4; H302  
Acute Tox. 4; H332  
Aquatic Chronic 3; H412  
Eye Dam. 1; H318  
Skin Corr. 1B; H314  
Skin Sens. 1; H317**Classification information**This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:  
Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP  
Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05



GHS07

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

m-phenylenebis(methylamine)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-Chloro-2,3-epoxypropane, Reaction products with 3-Aminomethyl-3,5,5-trimethylcyclohexylamine

**Hazard statement(s)**

H302+H332

Harmful if swallowed or if inhaled

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**

P101

If medical advice is needed, have product container or label at hand.

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|                |  |
|----------------|--|
| P102           | Keep out of reach of children.   |
| P260           | Do not breathe mist/vapours/spray.   |
| P271           | Use only outdoors or in a well-ventilated area.  |
| P280           | Wear protective gloves/eye protection.   |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor.   |
| P405           | Store locked up.   |
| P501           | Dispose of contents/container to a facility in accordance with local and national regulations.                                   |

### 2.3 Other hazards

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Hazardous ingredients

| No | Substance name   |   | Additional information |        |
|----|--|---|------------------------|--------|
|    | CAS / EC / Index / REACH no  | Classification (EC) 1272/2008 (CLP)   | Concentration          | %      |
| 1  | <b>benzyl alcohol</b>  |   |                        |        |
|    | 100-51-6<br>202-859-9<br>603-057-00-5<br>01-2119492630-38  | Acute Tox. 4; H302<br>Acute Tox. 4; H332  | >= 25.00 - < 50.00     | %-b.w. |
| 2  | <b>m-phenylenebis(methylamine)</b>   |   |                        |        |
|    | 1477-55-0<br>216-032-5<br>-<br>01-2119480150-50  | Acute Tox. 4; H332<br>Acute Tox. 4; H302<br>Aquatic Chronic 3; H412<br>Skin Corr. 1B; H314<br>Skin Sens. 1B; H317<br>EUH071 | >= 10.00 - < 25.00     | %-b.w. |
| 3  | <b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>  |   |                        |        |
|    | 2855-13-2<br>220-666-8<br>612-067-00-9<br>01-2119514687-32   | Acute Tox. 4; H302<br>Acute Tox. 4; H312<br>Aquatic Chronic 3; H412<br>Skin Corr. 1B; H314<br>Skin Sens. 1; H317            | >= 10.00 - < 25.00     | %-b.w. |
| 4  | <b>4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-Chloro-2,3-epoxypropane, Reaction products with 3-Aminomethyl-3,5,5-trimethylcyclohexylamine</b> |   |                        |        |
|    | 38294-64-3<br>-<br>-<br>01-2119965165-33   | Aquatic Chronic 3; H412<br>Skin Corr. 1B; H314<br>Skin Sens. 1; H317<br>Eye Dam. 1; H318                                    | >= 10.00 - < 25.00     | %-b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

#### After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### After skin contact

Remove contaminated clothing. After skin contact immediately wash with water and soap and rinse thoroughly. Do NOT use solvents or thinners.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

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**After ingestion**

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray

**Unsuitable extinguishing media**

water jet.

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

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Toxic pyrolysis products; Exposure to decomposition products may cause a health hazard.

**5.3 Advice for firefighters**

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses. Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Is not allowed to be released into the sewerage or water courses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

**6.4 Reference to other sections**

No data available.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

**Advice on safe handling**

Due to the organic solvents' content of the mixture: Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet [sanding]/[flattening] should be used wherever possible. Avoid inhalation of dust from sanding. For personal protection see section 8.

**General protective and hygiene measures**

Avoid skin and eye contact. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Advice on protection against fire and explosion**

Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

**Technical measures and storage conditions**

Comply with legal health and safety regulations; Prevent unauthorised access. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep away from sources of ignition. No smoking.

**Requirements for storage rooms and vessels**

Always keep in containers of same material as the original one. Never use pressure to empty: container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Observe label precautions.

**Incompatible products**

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Store away from oxidising agents, from strongly alkaline and strongly acid materials.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

| No | Substance name              |                     |          | CAS / EC no            |                   |
|----|-----------------------------|---------------------|----------|------------------------|-------------------|
|    | Route of exposure           | Exposure time       | Effect   | Value                  |                   |
| 1  | benzyl alcohol              |                     |          | 100-51-6<br>202-859-9  |                   |
|    | dermal                      | Long term (chronic) | systemic | 9.5                    | mg/kg/day         |
|    | dermal                      | Short term (acut)   | systemic | 47                     | mg/kg/day         |
|    | inhalative                  | Long term (chronic) | systemic | 90                     | mg/m <sup>3</sup> |
|    | inhalative                  | Short term (acut)   | systemic | 450                    | mg/m <sup>3</sup> |
| 2  | m-phenylenebis(methylamine) |                     |          | 1477-55-0<br>216-032-5 |                   |
|    | dermal                      | Long term (chronic) | systemic | 0.33                   | mg/kg             |
|    | inhalative                  | Long term (chronic) | systemic | 1.2                    | mg/m <sup>3</sup> |
|    | inhalative                  | Long term (chronic) | local    | 0.2                    | mg/m <sup>3</sup> |

**DNEL value (consumer)**

| No | Substance name                               |                     |          | CAS / EC no            |                   |
|----|--|---------------------|----------|------------------------|-------------------|
|    | Route of exposure                            | Exposure time       | Effect   | Value                  |                   |
| 1  | benzyl alcohol                               |                     |          | 100-51-6<br>202-859-9  |                   |
|    | oral   | Long term (chronic) | systemic | 5                      | mg/kg/day         |
|    | oral   | Short term (acut)   | systemic | 25                     | mg/kg/day         |
|    | dermal                                       | Long term (chronic) | systemic | 5.7                    | mg/kg/day         |
|    | dermal                                       | Long term (chronic) | systemic | 28.5                   | mg/kg/day         |
|    | inhalative                                   | Long term (chronic) | systemic | 8.11                   | mg/m <sup>3</sup> |
|    | inhalative                                   | Short term (acut)   | systemic | 40.55                  | mg/m <sup>3</sup> |
| 2  | 3-aminomethyl-3,5,5-trimethylcyclohexylamine |                     |          | 2855-13-2<br>220-666-8 |                   |
|    | oral   | Long term (chronic) | systemic | 0.526                  | mg/kg/day         |

**PNEC values**

| No                     | Substance name                               |                               | CAS / EC no            |       |
|------------------------|--|-------------------------------|------------------------|-------|
|                        | ecological compartment                       | Type                          | Value                  |       |
| 1                      | benzyl alcohol                               |                               | 100-51-6<br>202-859-9  |       |
|                        | water  | fresh water                   | 1                      | mg/L  |
|                        | water  | marine water                  | 0.1                    | mg/L  |
|                        | water  | Aqua intermittent             | 2.3                    | mg/L  |
|                        | water  | fresh water sediment          | 5.27                   | mg/kg |
|                        | water  | with reference to: dry weight |                        |       |
|                        | water  | marine water sediment         | 0.527                  | mg/kg |
|                        | water  | with reference to: dry weight |                        |       |
|                        | soil   | -                             | 0.456                  | mg/kg |
|                        | soil   | with reference to: dry weight |                        |       |
| sewage treatment plant | -  | 39                            | mg/L                   |       |
| 2                      | m-phenylenebis(methylamine)                  |                               | 1477-55-0<br>216-032-5 |       |
|                        | water  | fresh water                   | 0.094                  | mg/L  |
|                        | water  | marine water                  | 0.0094                 | mg/L  |
|                        | water  | Aqua intermittent             | 0.152                  | mg/L  |
|                        | water  | fresh water sediment          | 0.43                   | mg/kg |
|                        | water  | with reference to: dry mass   |                        |       |
|                        | water  | marine water sediment         | 0.043                  | mg/kg |
|                        | water  | with reference to: dry mass   |                        |       |
|                        | soil   | -                             | 0.045                  | mg/kg |
|                        | soil   | with reference to: dry mass   |                        |       |
| sewage treatment plant | -  | 10                            | mg/L                   |       |
| 3                      | 3-aminomethyl-3,5,5-trimethylcyclohexylamine |                               | 2855-13-2<br>220-666-8 |       |
|                        | water  | fresh water                   | 0.06                   | mg/L  |

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|                        |                       |       |                  |
|------------------------|-----------------------|-------|------------------|
| water                  | marine water          | 0.006 | mg/L             |
| water                  | Aqua intermittent     | 0.23  | mg/L             |
| water                  | fresh water sediment  | 5.784 | mg/kg dry weight |
| water                  | marine water sediment | 0.578 | mg/kg dry weight |
| soil                   | -                     | 1.121 | mg/kg dry weight |
| sewage treatment plant | -                     | 3.18  | mg/L             |

## 8.2 Exposure controls

### Appropriate engineering controls

Provide good ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Filter A2P2 (DIN EN 14387)

#### Eye / face protection

Wear safety goggles to protect against splashes. Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

|                      |                |     |     |
|----------------------|----------------|-----|-----|
| Appropriate Material | butyl rubber   |     |     |
| Material thickness   |                | 0.7 | mm  |
| Breakthrough time    | >              | 480 | min |
| Appropriate Material | nitrile rubber |     |     |
| Material thickness   |                | 0.4 | mm  |
| Breakthrough time    | >              | 480 | min |

#### Other

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

#### Environmental exposure controls

Do not allow to enter drains or water courses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |     |    |
|--|---|-----|----|
| <b>Form/Colour</b>                               |   |     |    |
| liquid   |   |     |    |
| yellowish  |   |     |    |
| <b>Odour</b>                                     |   |     |    |
| amine-like                                       |   |     |    |
| <b>Odour threshold</b>                           |   |     |    |
| No data available                                |   |     |    |
| <b>pH value</b>                                  |   |     |    |
| No data available                                |   |     |    |
| <b>Boiling point / boiling range</b>             |   |     |    |
| No data available                                |   |     |    |
| <b>Melting point / melting range</b>             |   |     |    |
| No data available                                |   |     |    |
| <b>Decomposition point / decomposition range</b> |   |     |    |
| No data available                                |   |     |    |
| <b>Flash point</b>                               |   |     |    |
| Value  | > | 100 | °C |
| <b>Ignition temperature</b>                      |   |     |    |
| Value  |   | 435 | °C |
| <b>Auto-ignition temperature</b>                 |   |     |    |
| No data available                                |   |     |    |
| <b>Oxidising properties</b>                      |   |     |    |
| Not applicable                                   |   |     |    |

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|   |  |                   |               |
|---|--|-------------------|---------------|
| <b>Explosive properties</b>                   |  |                   |               |
| No data available                             |  |                   |               |
| <b>Flammability (solid, gas)</b>              |  |                   |               |
| Not applicable                                |  |                   |               |
| <b>Lower flammability or explosive limits</b> |  |                   |               |
| Value   | 1.3  | % vol             |               |
| <b>Upper flammability or explosive limits</b> |  |                   |               |
| Value   | 13.0   | % vol             |               |
| <b>Vapour pressure</b>                        |  |                   |               |
| Value   | 0.1  | hPa               |               |
| <b>Vapour density</b>                         |  |                   |               |
| No data available                             |  |                   |               |
| <b>Evaporation rate</b>                       |  |                   |               |
| No data available                             |  |                   |               |
| <b>Relative density</b>                       |  |                   |               |
| No data available                             |  |                   |               |
| <b>Density</b>                                |  |                   |               |
| Value   | 1.05   | g/cm <sup>3</sup> |               |
| Reference temperature                         | 20   | °C                |               |
| Method  | DIN EN ISO 2811-2                            |                   |               |
| <b>Solubility in water</b>                    |  |                   |               |
| Comments                                      | partially miscible                           |                   |               |
| <b>Solubility(ies)</b>                        |  |                   |               |
| No data available                             |  |                   |               |
| <b>Partition coefficient: n-octanol/water</b> |  |                   |               |
| <b>No</b>                                     | <b>Substance name</b>                        | <b>CAS no.</b>    | <b>EC no.</b> |
| 1   | benzyl alcohol                               | 100-51-6          | 202-859-9     |
| log Pow                                       |  | 1.05              |               |
| Reference temperature                         |  | 20                | °C            |
| Source  | ECHA   |                   |               |
| 2   | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2         | 220-666-8     |
| log Pow                                       |  | 0.99              |               |
| Reference temperature                         |  | 23                | °C            |
| with reference to                             | pH 6.34                                      |                   |               |
| Source  | ECHA   |                   |               |
| <b>Viscosity</b>                              |  |                   |               |
| Value   | 600 - 700                                    | mPa*s             |               |
| Reference temperature                         | 23   | °C                |               |
| Method  | DIN EN ISO 3219                              |                   |               |
| <b>Solvent separation test</b>                |  |                   |               |
| Not applicable                                |  |                   |               |

## 9.2 Other information

|                          |
|--------------------------|
| <b>Other information</b> |
| No data available.       |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage and handling conditions (See section 7).

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

### 10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

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None if stored, handled and transported properly. In case of fire: see section 5.

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

| Acute oral toxicity (result of the ATE calculation for the mixture) |   |
|---|---|
| No  | Product Name  |
| 1   | einZA Härter LawiDox, für Epoxidharz-Grundierung AgBB   |
| ATE (Mixture)   | 1087.69   |
| Method  | Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6. |

| Acute oral toxicity |  |           |                  |
|---------------------|--|-----------|------------------|
| No                  | Substance name                               | CAS no.   | EC no.           |
| 1                   | benzyl alcohol                               | 100-51-6  | 202-859-9        |
| LD50                |  | 1230      | mg/kg bodyweight |
| Species             | rat  |           |                  |
| 2                   | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8        |
| LD50                |  | 1030      | mg/kg bodyweight |
| Species             | rat  |           |                  |
| Method              | OECD 401                                     |           |                  |
| Source              | ECHA   |           |                  |

| Acute dermal toxicity (result of the ATE calculation for the mixture) |   |
|---|---|
| No  | Product Name  |
| 1   | einZA Härter LawiDox, für Epoxidharz-Grundierung AgBB   |
| Comments  | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg). |

| Acute dermal toxicity |  |           |                  |
|-----------------------|--|-----------|------------------|
| No                    | Substance name                               | CAS no.   | EC no.           |
| 1                     | benzyl alcohol                               | 100-51-6  | 202-859-9        |
| LD50                  |  | 2000      | mg/kg bodyweight |
| Species               | rabbit                                       |           |                  |
| 2                     | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8        |
| LD50                  |  | > 2000    | mg/kg bodyweight |
| Species               | rabbit                                       |           |                  |
| Method                | OECD 402                                     |           |                  |
| Source                | ECHA   |           |                  |

| Acute inhalational toxicity (result of the ATE calculation for the mixture) |   |
|---|---|
| No  | Product Name  |
| 1   | einZA Härter LawiDox, für Epoxidharz-Grundierung AgBB   |
| ATE (Mixture)   | 18.3333   |
| Route of exposure / physical form   | Vapour  |
| Method  | Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6. |

| Acute inhalational toxicity |  |           |           |
|-----------------------------|--|-----------|-----------|
| No                          | Substance name                               | CAS no.   | EC no.    |
| 1                           | benzyl alcohol                               | 100-51-6  | 202-859-9 |
| LC50                        |  | 4178      | mg/l      |
| Duration of exposure        |  | 4         | h         |
| State of aggregation        | mist   |           |           |
| Species                     | rat  |           |           |
| Source                      | ECHA   |           |           |
| 2                           | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8 |
| LC50                        |  | > 5.01    | mg/l      |
| Duration of exposure        |  | 4         | h         |
| State of aggregation        | Dust/mist                                    |           |           |
| Species                     | rat  |           |           |
| Method                      | OECD 403                                     |           |           |
| Source                      | ECHA   |           |           |

| Skin corrosion/irritation |                |          |           |
|---------------------------|----------------|----------|-----------|
| No                        | Substance name | CAS no.  | EC no.    |
| 1                         | benzyl alcohol | 100-51-6 | 202-859-9 |
| Species                   | rabbit         |          |           |
| Method                    | OECD 404       |          |           |
| Source                    | ECHA           |          |           |

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|            |   |                  |                  |
|------------|---|------------------|------------------|
| Evaluation | non-irritant  |                  |                  |
| <b>2</b>   | <b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b> | <b>2855-13-2</b> | <b>220-666-8</b> |
| Species    | rabbit  |                  |                  |
| Method     | Draize method                                       |                  |                  |
| Source     | ECHA  |                  |                  |
| Evaluation | corrosive   |                  |                  |

| Serious eye damage/irritation |   |                  |                  |
|-------------------------------|---|------------------|------------------|
| No                            | Substance name                                      | CAS no.          | EC no.           |
| <b>1</b>                      | <b>benzyl alcohol</b>                               | <b>100-51-6</b>  | <b>202-859-9</b> |
| Species                       | rabbit  |                  |                  |
| Method                        | OECD 405  |                  |                  |
| Source                        | ECHA  |                  |                  |
| Evaluation                    | non-irritant  |                  |                  |
| <b>2</b>                      | <b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b> | <b>2855-13-2</b> | <b>220-666-8</b> |
| Species                       | rabbit  |                  |                  |
| Method                        | OECD 405  |                  |                  |
| Source                        | ECHA  |                  |                  |
| Evaluation                    | corrosive   |                  |                  |

| Respiratory or skin sensitisation |   |                  |                  |
|-----------------------------------|---|------------------|------------------|
| No                                | Substance name                                      | CAS no.          | EC no.           |
| <b>1</b>                          | <b>benzyl alcohol</b>                               | <b>100-51-6</b>  | <b>202-859-9</b> |
| Route of exposure                 | Skin  |                  |                  |
| Species                           | mouse   |                  |                  |
| Method                            | OECD 429  |                  |                  |
| Source                            | ECHA  |                  |                  |
| Evaluation                        | non-sensitizing                                     |                  |                  |
| <b>2</b>                          | <b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b> | <b>2855-13-2</b> | <b>220-666-8</b> |
| Route of exposure                 | Skin  |                  |                  |
| Species                           | guinea pig  |                  |                  |
| Method                            | OECD 406  |                  |                  |
| Source                            | ECHA  |                  |                  |
| Evaluation                        | sensitizing   |                  |                  |

| Germ cell mutagenicity    |   |                  |                  |
|---------------------------|---|------------------|------------------|
| No                        | Substance name  | CAS no.          | EC no.           |
| <b>1</b>                  | <b>benzyl alcohol</b>   | <b>100-51-6</b>  | <b>202-859-9</b> |
| Species                   | Salmonella typhimurium TA98, TA100, TA1535, TA1537                |                  |                  |
| Method                    | OECD 471  |                  |                  |
| Source                    | ECHA  |                  |                  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                  |                  |
| <b>2</b>                  | <b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>               | <b>2855-13-2</b> | <b>220-666-8</b> |
| Source                    | ECHA  |                  |                  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                  |                  |

| Reproduction toxicity     |   |                  |                  |
|---------------------------|---|------------------|------------------|
| No                        | Substance name  | CAS no.          | EC no.           |
| <b>1</b>                  | <b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>               | <b>2855-13-2</b> | <b>220-666-8</b> |
| Source                    | ECHA  |                  |                  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                  |                  |

| Carcinogenicity           |   |                 |                  |
|---------------------------|---|-----------------|------------------|
| No                        | Substance name  | CAS no.         | EC no.           |
| <b>1</b>                  | <b>benzyl alcohol</b>   | <b>100-51-6</b> | <b>202-859-9</b> |
| Route of exposure         | oral  |                 |                  |
|                           |   | 400             | mg/kg bw/d       |
| Species                   | rat   |                 |                  |
| Method                    | OECD 451  |                 |                  |
| Source                    | ECHA  |                 |                  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                 |                  |

|                               |
|-------------------------------|
| <b>STOT - single exposure</b> |
| No data available             |

|                                 |
|---------------------------------|
| <b>STOT - repeated exposure</b> |
| No data available               |

|                          |
|--------------------------|
| <b>Aspiration hazard</b> |
| No data available        |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**  
 Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.



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Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Toxicity to fish (acute) |  |           |           |
|--------------------------|--|-----------|-----------|
| No                       | Substance name                               | CAS no.   | EC no.    |
| 1                        | benzyl alcohol                               | 100-51-6  | 202-859-9 |
| LC50                     |  | 460       | mg/l      |
| Duration of exposure     |  | 96        | h         |
| Species                  | Pimephales promelas                          |           |           |
| Method                   | EPA OPP 72-1                                 |           |           |
| Source                   | ECHA   |           |           |
| 2                        | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8 |
| LC50                     |  | 110       | mg/l      |
| Duration of exposure     |  | 96        | h         |
| Species                  | Leuciscus idus                               |           |           |
| Method                   | EEC C1                                       |           |           |
| Source                   | ECHA   |           |           |

#### Toxicity to fish (chronic)

No data available

| Toxicity to Daphnia (acute) |  |           |           |
|-----------------------------|--|-----------|-----------|
| No                          | Substance name                               | CAS no.   | EC no.    |
| 1                           | benzyl alcohol                               | 100-51-6  | 202-859-9 |
| EC50                        |  | 230       | mg/l      |
| Duration of exposure        |  | 48        | h         |
| Species                     | Daphnia magna                                |           |           |
| Method                      | OECD 202                                     |           |           |
| Source                      | ECHA   |           |           |
| 2                           | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8 |
| EC50                        |  | 23        | mg/l      |
| Duration of exposure        |  | 48        | h         |
| Species                     | Daphnia magna                                |           |           |
| Method                      | OECD 202                                     |           |           |
| Source                      | ECHA   |           |           |

| Toxicity to Daphnia (chronic) |  |           |           |
|-------------------------------|--|-----------|-----------|
| No                            | Substance name                               | CAS no.   | EC no.    |
| 1                             | benzyl alcohol                               | 100-51-6  | 202-859-9 |
| NOEC                          |  | 51        | mg/l      |
| Duration of exposure          |  | 21        | day(s)    |
| Species                       | Daphnia magna                                |           |           |
| Method                        | OECD 211                                     |           |           |
| Source                        | ECHA   |           |           |
| 2                             | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8 |
| NOEC                          |  | 3         | mg/l      |
| Duration of exposure          |  | 21        | day(s)    |
| Species                       | Daphnia magna                                |           |           |
| Method                        | OECD 211                                     |           |           |
| Source                        | ECHA   |           |           |

| Toxicity to algae (acute) |  |           |           |
|---------------------------|--|-----------|-----------|
| No                        | Substance name                               | CAS no.   | EC no.    |
| 1                         | benzyl alcohol                               | 100-51-6  | 202-859-9 |
| EC50                      |  | 710       | mg/l      |
| Duration of exposure      |  | 72        | h         |
| Species                   | Pseudokirchneriella subcapitata              |           |           |
| Method                    | OECD 201                                     |           |           |
| Source                    | ECHA   |           |           |
| 2                         | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8 |
| EC50                      |  | 37        | mg/l      |
| Duration of exposure      |  | 72        | h         |
| Species                   | Desmodesmus subspicatus                      |           |           |
| Method                    | EEC C3                                       |           |           |

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Source | ECHA

| Toxicity to algae (chronic) |  |           |           |
|-----------------------------|--|-----------|-----------|
| No                          | Substance name                               | CAS no.   | EC no.    |
| 1                           | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8 |
| NOEC                        |  | 1.5       | mg/l      |
| Duration of exposure        |  | 72        |           |
| Species                     | Desmodesmus subspicatus                      |           |           |
| Method                      | 440/2008/EC C.3.                             |           |           |
| Source                      | ECHA   |           |           |

| Bacteria toxicity    |                  |          |           |
|----------------------|------------------|----------|-----------|
| No                   | Substance name   | CAS no.  | EC no.    |
| 1                    | benzyl alcohol   | 100-51-6 | 202-859-9 |
| IC50                 |                  | 390      | mg/l      |
| Duration of exposure |                  | 24       | h         |
| Species              | Nitrosomonas sp. |          |           |
| Method               | ISO 8192         |          |           |
| Source               | ECHA             |          |           |

## 12.2 Persistence and degradability

| Biodegradability |  |           |           |
|------------------|--|-----------|-----------|
| No               | Substance name                               | CAS no.   | EC no.    |
| 1                | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8 |
| Value            |  | 8         | %         |
| Duration         |  | 28        | day(s)    |
| Method           | 92/69 EEC C.4-A                              |           |           |
| Source           | ECHA   |           |           |
| Evaluation       | not readily biodegradable                    |           |           |

## 12.3 Bioaccumulative potential

| Partition coefficient: n-octanol/water |  |           |           |
|--|--|-----------|-----------|
| No                                     | Substance name                               | CAS no.   | EC no.    |
| 1                                      | benzyl alcohol                               | 100-51-6  | 202-859-9 |
| log Pow                                |  | 1.05      |           |
| Reference temperature                  |  | 20        | °C        |
| Source                                 | ECHA   |           |           |
| 2                                      | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 220-666-8 |
| log Pow                                |  | 0.99      |           |
| Reference temperature                  |  | 23        | °C        |
| with reference to                      | pH 6.34                                      |           |           |
| Source                                 | ECHA   |           |           |

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment |   |
|------------------------------------|---|
| PBT assessment                     | The components of this product are not considered to be a PBT.  |
| vPvB assessment                    | The components of this product are not considered to be a vPvB. |

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

| Other information                              |
|--|
| Do not allow to enter drains or water courses. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste code 08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Empty containers must be scrapped or reconditioned.

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## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

|                           |   |
|---------------------------|---|
| Class                     | 8   |
| Classification code       | C7  |
| Packing group             | II  |
| Hazard identification no. | 80  |
| UN number                 | UN2735  |
| Proper shipping name      | AMINES, LIQUID, CORROSIVE, N.O.S.   |
| Technical name            | m-phenylenebis(methylamine)<br>3-aminomethyl-3,5,5-trimethylcyclohexylamine |
| Tunnel restriction code   | E   |
| Label                     | 8   |

### 14.2 Transport IMDG

|                      |   |
|----------------------|---|
| Class                | 8   |
| Packing group        | II  |
| UN number            | UN2735  |
| Proper shipping name | AMINES, LIQUID, CORROSIVE, N.O.S.   |
| Technical name       | m-phenylenebis(methylamine)<br>3-aminomethyl-3,5,5-trimethylcyclohexylamine |
| EmS                  | F-A, S-B  |
| Label                | 8   |

### 14.3 Transport ICAO-TI / IATA

|                      |   |
|----------------------|---|
| Class                | 8   |
| Packing group        | II  |
| UN number            | UN2735  |
| Proper shipping name | Amines, liquid, corrosive, n.o.s.   |
| Technical name       | m-phenylenebis(methylamine)<br>3-aminomethyl-3,5,5-trimethylcyclohexylamine |
| Label                | 8   |

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

Transport within the 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

#### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

#### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

#### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

#### **Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

|             |       |          |
|-------------|-------|----------|
| VOC content | 36.00 | % weight |
|-------------|-------|----------|

#### National regulations

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#### Other national regulations

Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

### SECTION 16: Other information

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

#### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

|        |                                     |
|--------|-------------------------------------|
| EUH071 | Corrosive to the respiratory tract. |
| H302   | Harmful if swallowed.               |
| H312   | Harmful in contact with skin.       |
| H318   | Causes serious eye damage.          |
| H332   | Harmful if inhaled.                 |

#### Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

#### Alterations/supplements:

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Prod-ID 686401