

# Safety Data Sheet according to Regulation (EC) No 1907/2006

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3609 Chipbonder 10 EFD

SDS No. : 153602 V006.0 Revision: 03.04.2018 printing date: 26.01.2021 Replaces version from: 25.10.2016

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

### 1.1. Product identifier

3609 Chipbonder 10 EFD

#### **Contains:**

Epichlorohyd.-bisphenol A resin MW<=700 Dipropylene glycol diglycidyl ether Diethylenetriamine

**1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use:

Epoxy adhesive

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

Henkel Ltd Wood Lane End HP2 4RQ Hemel Hempstead

#### Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.com

### **1.4.** Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

**SECTION 2: Hazards identification** 

## 2.1. Classification of the substance or mixture

| Classification (CLP):                                 |            |
|---|------------|
| Skin irritation                                       | Category 2 |
| H315 Causes skin irritation.                          |            |
| Serious eye irritation                                | Category 2 |
| H319 Causes serious eye irritation.                   |            |
| Skin sensitizer                                       | Category 1 |
| H317 May cause an allergic skin reaction.             |            |
| Chronic hazards to the aquatic environment            | Category 2 |
| H411 Toxic to aquatic life with long lasting effects. |            |

#### 2.2. Label elements

### Label elements (CLP):

| Hazard pictogram:                      |  |
|--|--|
| Signal word:                           | Warning  |
| Hazard statement:                      | <ul><li>H319 Causes serious eye irritation.</li><li>H315 Causes skin irritation.</li><li>H317 May cause an allergic skin reaction.</li><li>H411 Toxic to aquatic life with long lasting effects.</li></ul>     |
| Precautionary statement:<br>Prevention | P273 Avoid release to the environment.<br>P280 Wear protective gloves.   |
| Precautionary statement:<br>Response   | P337+P313 If eye irritation persists: Get medical advice/attention.<br>P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention. |

## 2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

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

#### 3.2. Mixtures

## General chemical description:

Epoxy resin

# Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components<br>CAS-No.  | EC Number<br>REACH-Reg No.                        | content  | Classification   |
|--|---|----------|--|
| Epichlorohydbisphenol A resin<br>MW<=700<br>25068-38-6                             | 500-033-5<br>500-033-5<br>01-2119456619-26        | 25- 50 % | Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319<br>Aquatic Chronic 2<br>H411   |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0 | 01-2120096580-52                                  | 20- 40 % | Acute Tox, 4; Oral<br>H302<br>Aquatic Chronic 2<br>H411  |
| Dipropylene glycol diglycidyl ether<br>41638-13-5                                  |   | 25- 50 % | Skin Irrit. 2; Dermal<br>H315<br>Skin Sens. 1; Dermal<br>H317<br>Eye Irrit. 2<br>H319<br>Aquatic Chronic 3<br>H412   |
| Diethylenetriamine<br>111-40-0   | 203-865-4<br>01-2119473793-27<br>01-2119969287-21 | 1-< 3 %  | Acute Tox. 4; Oral<br>H302<br>Acute Tox. 4; Dermal<br>H312<br>Skin Corr. 1B<br>H314<br>Skin Sens. 1<br>H317<br>Acute Tox. 2; Inhalation<br>H330<br>STOT SE 3<br>H335 |

For full text of the H - statements and other abbreviations see section 16 "Other information".

#### Substances without classification may have community workplace exposure limits available.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap. Obtain medical attention if irritation persists.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion: Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

**4.2. Most important symptoms and effects, both acute and delayed** EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

**4.3. Indication of any immediate medical attention and special treatment needed** See section: Description of first aid measures

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media Suitable extinguishing media:

Carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:** None known

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

#### Additional information:

In case of fire, keep containers cool with water spray.

**SECTION 6: Accidental release measures** 

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

Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation.

#### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

#### 6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal. Wash spillage site thoroughly with soap and water or detergent solution. Dispose of contaminated material as waste according to Section 13.

#### 6.4. Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Use only in well-ventilated areas. Avoid skin and eye contact. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. See advice in section 8

#### Hygiene measures:

Good industrial hygiene practices should be observed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

# 7.2. Conditions for safe storage, including any incompatibilities

Refer to Technical Data Sheet

## 7.3. Specific end use(s)

Epoxy adhesive

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

#### 8.1. Control parameters

## **Occupational Exposure Limits**

Valid for

Great Britain

| Ingredient [Regulated substance]                                   | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit<br>category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|---|-----------------|
| 2,2'-Iminodi(ethylamine)<br>111-40-0<br>[2,2'-IMINODI(ETHYLAMINE)] |     |                   | Skin designation:            | Can be absorbed through the skin.               | EH40 WEL        |
| 2,2'-Iminodi(ethylamine)<br>111-40-0<br>[2,2'-IMINODI(ETHYLAMINE)] | 1   | 4,3               | Time Weighted Average (TWA): |   | EH40 WEL        |

#### **Occupational Exposure Limits**

Valid for

#### Ireland

| Ingredient [Regulated substance]                              | ррт | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|------------------------------|--|-----------------|
| 2,2'-Iminodi(ethylamine)<br>111-40-0<br>[DIETHYLENE TRIAMINE] | 1   | 4                 | Time Weighted Average (TWA): |  | IR_OEL          |
| 2,2'-Iminodi(ethylamine)<br>111-40-0<br>[DIETHYLENE TRIAMINE] |     |                   | U                            | Can be absorbed through the skin.            | IR_OEL          |

# Predicted No-Effect Concentration (PNEC):

| Name on list  | Environmental<br>Compartment       | Exposure<br>period | Value           |     |                 |        | Remarks |
|---|------------------------------------|--------------------|-----------------|-----|-----------------|--------|---------|
|   | put thient                         | L                  | mg/l            | ppm | mg/kg           | others |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | aqua<br>(freshwater)               |                    | 0,006 mg/l      |     |                 |        |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | aqua (marine<br>water)             |                    | 0,001 mg/l      |     |                 |        |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | sewage<br>treatment plant<br>(STP) |                    | 10 mg/l         |     |                 |        |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | sediment<br>(freshwater)           |                    |                 |     | 0,996<br>mg/kg  |        |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | sediment<br>(marine water)         |                    |                 |     | 0,1 mg/kg       |        |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | soil                               |                    |                 |     | 0,196<br>mg/kg  |        |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | oral                               |                    |                 |     | 11 mg/kg        |        |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | aqua<br>(intermittent<br>releases) |                    | 0,018 mg/l      |     |                 |        |         |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0  | aqua<br>(freshwater)               |                    | 0,0026<br>mg/l  |     |                 |        |         |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0  | aqua (marine<br>water)             |                    | 0,00026<br>mg/l |     |                 |        |         |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0  | aqua<br>(intermittent<br>releases) |                    | 0,026 mg/l      |     |                 |        |         |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0  | sewage<br>treatment plant<br>(STP) |                    | 10 mg/l         |     |                 |        |         |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0  | sediment<br>(freshwater)           |                    |                 |     | 0,014<br>mg/kg  |        |         |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0  | sediment<br>(marine water)         |                    |                 |     | 0,0014<br>mg/kg |        |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | aqua<br>(freshwater)               |                    | 0,56 mg/l       |     |                 |        |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | aqua (marine<br>water)             |                    | 0,056 mg/l      |     |                 |        |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | aqua<br>(intermittent<br>releases) |                    | 0,32 mg/l       |     |                 |        |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | sediment<br>(freshwater)           |                    |                 |     | 1072<br>mg/kg   |        |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | sediment<br>(marine water)         |                    |                 |     | 107,2<br>mg/kg  |        |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | sewage<br>treatment plant<br>(STP) |                    | 6 mg/l          |     |                 |        |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | soil                               |                    |                 |     | 7,97 mg/kg      |        |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | Air                                |                    |                 |     |                 |        |         |

# Derived No-Effect Level (DNEL):

| Name on list  | Application<br>Area   | Route of<br>Exposure | Health Effect                                      | Exposure<br>Time | Value       | Remarks |
|---|-----------------------|----------------------|--|------------------|-------------|---------|
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | Workers               | dermal               | Acute/short term<br>exposure -<br>systemic effects |                  | 8,33 mg/kg  |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | Workers               | Inhalation           | Acute/short term<br>exposure -<br>systemic effects |                  | 12,25 mg/m3 |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | Workers               | dermal               | Long term<br>exposure -<br>systemic effects        |                  | 8,33 mg/kg  |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | Workers               | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 12,25 mg/m3 |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | General population    | dermal               | Acute/short term<br>exposure -<br>systemic effects |                  | 3,571 mg/kg |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | General<br>population | dermal               | Long term<br>exposure -<br>systemic effects        |                  | 3,571 mg/kg |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | General population    | oral                 | Acute/short term<br>exposure -<br>systemic effects |                  | 0,75 mg/kg  |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | General<br>population | oral                 | Long term<br>exposure -<br>systemic effects        |                  | 0,75 mg/kg  |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | General population    | inhalation           | Acute/short term<br>exposure -<br>systemic effects |                  | 0,75 mg/m3  |         |
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight <= 700)<br>25068-38-6 | General population    | inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 0,75 mg/m3  |         |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0  | Workers               | inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 11,7 mg/m3  |         |
| 1,3-Isobenzofurandione, reaction products<br>with diethylenetriamine<br>90412-31-0  | Workers               | dermal               | Long term<br>exposure -<br>systemic effects        |                  | 33,3 mg/kg  |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | Workers               | dermal               | Long term<br>exposure -<br>systemic effects        |                  | 11,4 mg/kg  |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | Workers               | dermal               | Long term<br>exposure - local<br>effects           |                  | 1,1 mg/kg   |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | Workers               | Inhalation           | Acute/short term<br>exposure -<br>systemic effects |                  | 92,1 mg/m3  |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | Workers               | Inhalation           | Acute/short term<br>exposure - local<br>effects    |                  | 2,6 mg/m3   |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | Workers               | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 15,4 mg/m3  |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | Workers               | Inhalation           | Long term<br>exposure - local<br>effects           |                  | 0,87 mg/m3  |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | General population    | dermal               | Acute/short term<br>exposure - local<br>effects    |                  | 4,88 mg/kg  |         |
| 2,2'-Iminodi(ethylamine)<br>111-40-0  | General population    | Inhalation           | Acute/short term<br>exposure -<br>systemic effects |                  | 27,5 mg/m3  |         |
| 2,2'-Iminodi(ethylamine)  | General               | dermal               | Long term  |                  | 4,88 mg/kg  |         |

| 111-40-0                             | population         | exposure -<br>systemic effects |           |  |
|--------------------------------------|--------------------|--------------------------------|-----------|--|
| 2,2'-Iminodi(ethylamine)<br>111-40-0 | General population | Long term<br>exposure -        | 4,6 mg/m3 |  |
|                                      |                    | systemic effects               |           |  |

**Biological Exposure Indices:** 

None

#### 8.2. Exposure controls:

Engineering controls: Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation. An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection: Wear protective glasses. Protective eye equipment should conform to EN166.

Skin protection: Wear suitable protective clothing. Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

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

# 9.1. Information on basic physical and chemical properties Appearance gel

Odor Odour threshold

pH Melting point Solidification temperature Initial boiling point Flash point Evaporation rate gel viscous dark red mild No data available / Not applicable

No data available / Not applicable No data available / Not applicable No data available / Not applicable > 93 °C (> 199.4 °F) > 93 °C (> 199.4 °F); Tagliabue closed cup No data available / Not applicable

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|---------------|------|---|----|----|
|---------------|------|---|----|----|

| Flammability<br>Explosive limits<br>Vapour pressure        | No data available / Not applicable<br>No data available / Not applicable<br>6,67 mbar |
|--|---|
| (20 °C (68 °F))<br>Relative vapour density:                | No data available / Not applicable  |
| Density<br>()  | 1,1 g/cm3   |
| Bulk density   | No data available / Not applicable  |
| Solubility   | No data available / Not applicable  |
| Solubility (qualitative)                                   | Not miscible  |
| (Solvent: Water)<br>Partition coefficient: n-octanol/water | No. data and lable (Not and liable  |
|  | No data available / Not applicable  |
| Auto-ignition temperature                                  | No data available / Not applicable  |
| Decomposition temperature                                  | No data available / Not applicable  |
| Viscosity  | No data available / Not applicable  |
| Viscosity (kinematic)                                      | No data available / Not applicable  |
| Explosive properties                                       | No data available / Not applicable  |
| Oxidising properties                                       | No data available / Not applicable  |

#### 9.2. Other information

No data available / Not applicable

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reaction with strong acids. Reacts with strong oxidants.

**10.2.** Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

Stable under normal conditions of storage and use. Protect from direct sunlight.

**10.5. Incompatible materials** See section reactivity.

See section reactivity.

# 10.6. Hazardous decomposition products

carbon oxides.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value                      | Species | Method                                   |
|---|---------------|----------------------------|---------|--|
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6                                | LD50          | > 2.000 mg/kg              | rat     | OECD Guideline 420 (Acute Oral Toxicity) |
| 1,3-Isobenzofurandione,<br>reaction products with<br>diethylenetriamine<br>90412-31-0 | LD50          | > 1.000 - <<br>3.000 mg/kg | rat     | not specified                            |
| Dipropylene glycol<br>diglycidyl ether<br>41638-13-5                                  | LD50          | > 2.000 mg/kg              | rat     |  |
| Diethylenetriamine<br>111-40-0  | LD50          | 1.553 mg/kg                | rat     | not specified                            |

## Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value         | Species | Method                                     |
|---|---------------|---------------|---------|--|
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6                                | LD50          | > 2.000 mg/kg | rat     | not specified                              |
| 1,3-Isobenzofurandione,<br>reaction products with<br>diethylenetriamine<br>90412-31-0 | LD50          | > 3.000 mg/kg | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity) |
| Dipropylene glycol<br>diglycidyl ether<br>41638-13-5                                  | LD50          | > 2.000 mg/kg | rabbit  |  |
| Diethylenetriamine<br>111-40-0  | LD50          | 1.045 mg/kg   | rabbit  | not specified                              |

#### Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value    | Value     | Test atmosphere | Exposure | Species | Method                    |
|----------------------|----------|-----------|-----------------|----------|---------|---------------------------|
| CAS-No.              | type     |           |                 | time     |         |                           |
| Diethylenetriamine   | NOEL     | 0,07 mg/l |                 |          | rat     | OECD Guideline 403 (Acute |
| 111-40-0             |          | _         |                 |          |         | Inhalation Toxicity)      |
| Diethylenetriamine   | Acute    | 0,07 mg/l | dust/mist       |          |         | Expert judgement          |
| 111-40-0             | toxicity | -         |                 |          |         |                           |
|                      | estimate |           |                 |          |         |                           |
|                      | (ATE)    |           |                 |          |         |                           |

### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances                                   | Result                   | Exposure | Species | Method      |
|--|--------------------------|----------|---------|-------------|
| CAS-No.  |                          | time     |         |             |
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | moderately<br>irritating | 24 h     | rabbit  | Draize Test |
| Diethylenetriamine<br>111-40-0                         | corrosive                | 15 min   | rabbit  | BASF Test   |

## Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                        | Result         | Exposure<br>time | Species | Method  |
|--|----------------|------------------|---------|---|
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | not irritating |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Diethylenetriamine<br>111-40-0                         | corrosive      | 30 s             | rabbit  | not specified   |

### Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                        | Result      | Test type                             | Species | Method   |
|--|-------------|---------------------------------------|---------|--|
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | sensitising | Mouse local lymphnode<br>assay (LLNA) | mouse   | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay) |
| Diethylenetriamine<br>111-40-0                         | sensitising | Mouse local lymphnode<br>assay (LLNA) | mouse   | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay) |

## Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                        | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method  |
|--|----------|--|--|---------|---|
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 472 (Genetic<br>Toxicology: Escherichia coli,<br>Reverse Mutation Assay) |
| Diethylenetriamine<br>111-40-0                         | positive | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                             |
| Diethylenetriamine<br>111-40-0                         | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | Chromosome Aberration Test  |
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | negative | oral: gavage   |  | mouse   | not specified   |
| Diethylenetriamine<br>111-40-0                         | negative | oral: gavage   |  | mouse   | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                      |
| Diethylenetriamine<br>111-40-0                         | negative | oral: gavage   |  | mouse   | not specified   |

## Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components<br>CAS-No.                        | Result           | Route of application | Exposure<br>time /<br>Frequency<br>of treatment | Species | Sex         | Method   |
|--|------------------|----------------------|---|---------|-------------|--|
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | not carcinogenic | dermal               | 2 y<br>daily                                    | mouse   | male        | OECD Guideline 453<br>(Combined Chronic<br>Toxicity /<br>Carcinogenicity<br>Studies) |
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | not carcinogenic | oral: gavage         | 2 y<br>daily                                    | rat     | male/female | OECD Guideline 453<br>(Combined Chronic<br>Toxicity /<br>Carcinogenicity<br>Studies) |
| Diethylenetriamine<br>111-40-0                         | not carcinogenic | dermal               | lifetime<br>(appr. 587 d)<br>3 d/w              | mouse   | male        | OECD Guideline 453<br>(Combined Chronic<br>Toxicity /<br>Carcinogenicity<br>Studies) |

## **Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                        | Result / Value  | Test type                  | Route of application | Species | Method   |
|--|---|----------------------------|----------------------|---------|--|
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | NOAEL P >= 50 mg/kg<br>NOAEL F1 >= 750 mg/kg<br>NOAEL F2 >= 750 mg/kg | Two<br>generation<br>study | oral: gavage         | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)             |
| Diethylenetriamine<br>111-40-0                         | NOAEL P 100 mg/kg<br>NOAEL F1 30 mg/kg                                | screening                  | oral: gavage         | rat     | OECD Guideline 421<br>(Reproduction /<br>Developmental Toxicity<br>Screening Test) |

## STOT-single exposure:

No data available.

# STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                        | Result / Value      | Route of application  | Exposure time /<br>Frequency of | Species | Method   |
|--|---------------------|-----------------------|---------------------------------|---------|--|
| Epichlorohydbisphenol<br>A resin MW<=700<br>25068-38-6 | NOAEL 50 mg/kg      | oral: gavage          | treatment<br>14 w<br>daily      | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents) |
| Diethylenetriamine<br>111-40-0                         | NOAEL 70 - 80 mg/kg | oral: feed            | 90 d<br>daily                   | rat     | not specified  |
| Diethylenetriamine<br>111-40-0                         | NOAEL 0,55 mg/l     | inhalation:<br>vapour | 15 d<br>6 h/d                   | rat     | not specified  |

## Aspiration hazard:

No data available.

# **SECTION 12: Ecological information**

## General ecological information:

Do not empty into drains / surface water / ground water.

## 12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances          | Value | Value     | Exposure time | Species                | Method                          |
|-------------------------------|-------|-----------|---------------|------------------------|---------------------------------|
| CAS-No.                       | type  |           | _             | _                      |                                 |
| Epichlorohydbisphenol A       | LC50  | 1,75 mg/l | 96 h          | Oncorhynchus mykiss    | OECD Guideline 203 (Fish,       |
| resin MW<=700                 |       |           |               |                        | Acute Toxicity Test)            |
| 25068-38-6                    |       |           |               |                        |                                 |
| 1,3-Isobenzofurandione,       | LC50  | 2,7 mg/l  | 96 h          | Oncorhynchus mykiss    | OECD Guideline 203 (Fish,       |
| reaction products with        |       |           |               |                        | Acute Toxicity Test)            |
| diethylenetriamine            |       |           |               |                        |                                 |
| 90412-31-0                    |       |           |               |                        |                                 |
| Dipropylene glycol diglycidyl | LC50  | 67 mg/l   |               | Leuciscus idus         | OECD Guideline 203 (Fish,       |
| ether                         |       |           |               |                        | Acute Toxicity Test)            |
| 41638-13-5                    |       |           |               |                        |                                 |
| Diethylenetriamine            | LC50  | 430 mg/l  | 96 h          | Poecilia reticulata    | EU Method C.1 (Acute            |
| 111-40-0                      |       |           |               |                        | Toxicity for Fish)              |
| Diethylenetriamine            | NOEC  | > 10 mg/l | 28 d          | Gasterosteus aculeatus | OECD Guideline 210 (fish        |
| 111-40-0                      |       |           |               |                        | early lite stage toxicity test) |

## Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances  | Value | Value      | Exposure time | Species       | Method   |
|---|-------|------------|---------------|---------------|--|
| CAS-No.   | type  |            |               |               |  |
| Epichlorohydbisphenol A<br>resin MW<=700  | EC50  | 1,7 mg/l   | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute                         |
| 25068-38-6  |       |            |               |               | Immobilisation Test)   |
| 1,3-Isobenzofurandione,<br>reaction products with<br>diethylenetriamine<br>90412-31-0 | EC50  | > 100 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Dipropylene glycol diglycidyl<br>ether<br>41638-13-5                                  | EC50  | 90 mg/l    |               | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Diethylenetriamine<br>111-40-0  | EC50  | 64,6 mg/l  | 48 h          | Daphnia magna | EU Method C.2 (Acute<br>Toxicity for Daphnia)                    |

## Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances                                   | Value | Value    | Exposure time | Species       | Method   |
|--|-------|----------|---------------|---------------|--|
| CAS-No.  | type  |          |               |               |  |
| Epichlorohydbisphenol A<br>resin MW<=700<br>25068-38-6 | NOEC  | 0,3 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test)   |
| Diethylenetriamine<br>111-40-0                         | NOEC  | 5,6 mg/l | 21 d          | Daphnia magna | EU Method C.20 (Daphnia magna Reproduction Test) |

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances  | Value | Value      | Exposure time | Species   | Method   |
|---|-------|------------|---------------|---|--|
| CAS-No.   | type  |            |               |   |  |
| Epichlorohydbisphenol A<br>resin MW<=700<br>25068-38-6                                | EC50  | > 11 mg/l  | 72 h          | Scenedesmus capricornutum   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Epichlorohydbisphenol A<br>resin MW<=700<br>25068-38-6                                | NOEC  | 4,2 mg/l   | 72 h          | Scenedesmus capricornutum   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 1,3-Isobenzofurandione,<br>reaction products with<br>diethylenetriamine<br>90412-31-0 | EC50  | 2,6 mg/l   | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 1,3-Isobenzofurandione,<br>reaction products with<br>diethylenetriamine<br>90412-31-0 | NOEC  | 1 mg/l     | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Diethylenetriamine<br>111-40-0  | EC50  | 1.164 mg/l | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Diethylenetriamine<br>111-40-0  | NOEC  | 10 mg/l    | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

## Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances  | Value | Value      | Exposure time | Species   | Method   |
|---|-------|------------|---------------|---|--|
| CAS-No.   | type  |            |               |   |  |
| Epichlorohydbisphenol A<br>resin MW<=700<br>25068-38-6                                | IC50  | > 100 mg/l | 3 h           | activated sludge, industrial                        | other guideline:   |
| 1,3-Isobenzofurandione,<br>reaction products with<br>diethylenetriamine<br>90412-31-0 | EC50  | 1.000 mg/l | 3 h           | activated sludge of a predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |
| Diethylenetriamine<br>111-40-0  | NOEC  | 6 mg/l     | 3 h           | anaerobic bacteria                                  | not specified  |

# 12.2. Persistence and degradability

The product is not biodegradable.

| Hazardous substances<br>CAS-No.   | Result                     | Test type | Degradability | Exposure<br>time | Method  |
|---|----------------------------|-----------|---------------|------------------|---|
| Epichlorohydbisphenol A<br>resin MW<=700<br>25068-38-6                                | not readily biodegradable. | aerobic   | 5 %           | 28 d             | OECD Guideline 301 F (Ready<br>Biodegradability: Manometric<br>Respirometry Test) |
| 1,3-Isobenzofurandione,<br>reaction products with<br>diethylenetriamine<br>90412-31-0 | not readily biodegradable. | aerobic   | 25 %          | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)           |
| 1,3-Isobenzofurandione,<br>reaction products with<br>diethylenetriamine<br>90412-31-0 | inherently biodegradable   | aerobic   | 91 %          | 28 d             | OECD Guideline 302 B (Inherent<br>biodegradability: Zahn-<br>Wellens/EMPA Test)   |
| Dipropylene glycol diglycidyl<br>ether<br>41638-13-5                                  |                            |           | 8 - 27 %      | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)           |
| Diethylenetriamine<br>111-40-0  | inherently biodegradable   | aerobic   | 83 %          | 28 d             | EU Method C.9 (Biodegradation:<br>Zahn-Wellens Test)                              |
| Diethylenetriamine<br>111-40-0  | readily biodegradable      | aerobic   | 87 %          | 21 d             | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)           |

# 12.3. Bioaccumulative potential

No data available.

| Hazardous substances<br>CAS-No. | Bioconcentratio<br>n factor (BCF) | Exposure time | Temperature | Species         | Method   |
|---------------------------------|-----------------------------------|---------------|-------------|-----------------|--|
| Diethylenetriamine<br>111-40-0  | > 0,3 - < 6,3                     | 42 d          |             | Cyprinus carpio | OECD Guideline 305 C<br>(Bioaccumulation: Test for the<br>Degree of Bioconcentration in<br>Fish) |

#### 12.4. Mobility in soil

Cured adhesives are immobile.

| Hazardous substances<br>CAS-No.                        | LogPow | Temperature | Method  |
|--|--------|-------------|---|
| Epichlorohydbisphenol A<br>resin MW<=700<br>25068-38-6 | 3,242  | 25 °C       | EU Method A.8 (Partition Coefficient)               |
| Diethylenetriamine<br>111-40-0                         | -1,58  | 20 °C       | QSAR (Quantitative Structure Activity Relationship) |

#### 12.5. Results of PBT and vPvB assessment

| Hazardous substances<br>CAS-No.  | PBT / vPvB  |
|--|---|
| Epichlorohydbisphenol A resin MW<=700<br>25068-38-6                          | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1,3-Isobenzofurandione, reaction products with diethylenetriamine 90412-31-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Dipropylene glycol diglycidyl ether<br>41638-13-5                            | Not fulfilling PBT (persistent/bioaccummulative/toxic) criteria   |
| Diethylenetriamine<br>111-40-0   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

#### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Collection and delivery to recycling enterprise or other registered elimination institution.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Disposal must be made according to official regulations.

Waste code

 $08\ 04\ 09$  waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

# **SECTION 14: Transport information**

| ADR       3082<br>RID         RID       3082<br>MIDO         MATA       3082         14.1       3082         14.2       UN proper shipping name         ADR       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichofnydrin resin)         RID       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichofnydrin resin)         ADN       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichofnydrin resin)         ADN       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichofnydrin resin)         IATA       Environmentally bazardous substance, liquid, n.o.s. (Bisphenol-A Epichofnydrin<br>resin) <b>14.4 Pachn</b> ADR       III<br>MIDG         IATA       9 <b>14.4 Packing group</b> ADR       III<br>MIDG         MDG       III<br>MIDG         MDG       III<br>MIDG         MDG       III<br>MIDG         MIDG       III<br>MIDG         MDR       III<br>MIDG         ADR       III<br>MIDG         MDG       IIII<br>MIDG         ADR       IIII<br>MIDG         MDR       IIII MID         MDR       IIII MID         MDR       IIIII MID  | 14.1. | UN number   |   |  |  |  |
|--|-------|---|---|--|--|--|
| RID       3082         ADN       3083         IATA       ADR         ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.         (Bisphenol-A Epichlorlydnin resin)         IATA       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.         (Bisphenol-A Epichlorlydnin resin)         IATA       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.         (Bisphenol-A Epichlorlydnin resin)         IATA       Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorlydrin resin)         IATA       Pachong         ADR       9         MDG       9         MDG       9         MDG       11   |       | ADR   | 3082  |  |  |  |
| ADR 3082<br>IATA Compose shipping name<br>ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)<br>IATA Tansport hazard class(es)<br>IATA Packing group<br>IATA 9<br>IATA 9<br>IATA 9<br>IATA 9<br>IATA NOR 11<br>RDD 11<br>MDG 111<br>MDG 111<br>MDG 111<br>MDG 111<br>MDG 111<br>MDG 111<br>MDG 111<br>IATA 101<br>IATA 101<br>I |       |   |   |  |  |  |
| MDG     3082       I4.2.     UN proper shipping name       ADR     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichioritydin resin)       RID     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichioritydin resin)       ADR     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichioritydin resin)       ADN     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichioritydin resin)       ADR     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichioritydin resin)       IATA     Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichhoritydrin<br>resin)       I4.3.     Transport hazard class(es)       ADR     II       MDG     9       MDN     11       ADR     II       MDG     11       ADR     II       MDS     11       ADR     II       MDS     11       ADR     III       ADR     IIII       ADR     IIIII       ADR     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  |       |   |   |  |  |  |
| IATA     3082       I4.2.     UN proper shipping name       ADR     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)       RID     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)       ADN     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)       IMDG     ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)       IATA     Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)       IATA     Particle Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)       IAA     Particle Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)       IAA     Packing group       IATA     9       IATA     9       IATA     9       IATA     11       RDD     II       ADN     II       MDG     11       ADN     III       MDG     11       ADN     11 <t< th=""><th></th><th></th><th></th></t<>   |       |   |   |  |  |  |
| ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)<br>14.1 Transport hazard class(es)<br>ADR 9<br>RID 9<br>ADN 9<br>IATA 9<br>14.1 Packing group<br>ADR III<br>RID III<br>ADR III<br>RID III<br>ADR III<br>RID III<br>ADR NOT applicable<br>RID not applicable<br>RID not applicable<br>MDG Marine pollutant<br>IATA 01<br>14.6 Special precautions for user<br>ADR not applicable<br>MDG Not applicable<br>MDG Not applicable<br>MDG Not applicable<br>MDG Not applicable<br>MDG Not applicable<br>Tunnelcode:<br>RID not applicable<br>MDG Not applicable<br>MDG Not applicable<br>Tunnelcode:<br>RID not applicable<br>MDG Not app   |       |   |   |  |  |  |
| ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)<br>14.3. Transport hazard class(es)<br>ADR 9<br>RID 9<br>ADN 9<br>IATA 9<br>14.4. Packing group<br>ADR III<br>RID III<br>MDG III<br>IATA III<br>MDG III<br>IATA III<br>14.5. Environmental hazards<br>ADR not applicable<br>RID not applicable<br>RID not applicable<br>IMDG Marine pollutant<br>IATA 104 pollutant<br>IATA 105 Transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L of liquid substances or a net mass of no more than 5<br>kg of vision supplicable<br>IATA 105 (ADR)<br>RIDG 105 (ADR)<br>RIDG 105 (ADR)<br>ADR 105 (ADR)<br>RIDG 105 (ADR)<br>RID   | 14.2  |   |   |  |  |  |
| (Bisphenol-A Epichlorhydrin resin)         RID       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)         ADN       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)         IMDG       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)         IATA       Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)         IATA       Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)         IAA       Fansport hazard class(cs)         ADR       9         ADN       9         IATA       11         MDG       111         ADR       111         ADR       111         ADR       111         ADR       111         MDG       111         ADR       111         MDG       111         ADR       114         ADR       104 applicable         MDG       104 applicable         MDG  | 14.2. | On proper snipping name   |   |  |  |  |
| RID       ENVİRONMENTALLÝ HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)         ADN       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)         IMDG       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)         IATA       Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)         14.1       Transport hazard class(es)         ADR       9         NDG       9         MDG       9         MDG       9         MDG       9         MDG       9         IATA       Bull         ADR       III<br>RID         ADR       III<br>RID         MDG       III<br>ATA         MDG       III<br>ADN         III       ADN         MDG       III<br>ADN         III       ADN         III       ADN         MDG       III<br>ADN         III       ADN         III       ADN         III ADN       III<br>HIDG         ADR       not applicable         ADN       not applicable         ADN       not applicable         ADN       not applicable  |       | ADR   |   |  |  |  |
| ADN ENVİRONMENTALLÝ HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>IMDG ENVIRONMENTALLÝ HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)<br>IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin)<br>14.3. Transport hazard class(es)<br>ADR 9<br>RID 9<br>ADN 9<br>IMDG 9<br>IATA 9<br>14.4. Packing group<br>IATA III<br>RID III<br>ADR III<br>RID III<br>ADR III<br>ADR III<br>MDG III<br>IATA III<br>14.5. Environmental hazards<br>ADR not applicable<br>ADN not applicable<br>ADN not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>Tom not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable<br>IMDG Not applicable  |       | RID   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                             |  |  |  |
| IMDG       ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bisphenol-A Epichlorhydrin resin)         IATA       Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin resin)         14.3.       Transport hazard class(es)         ADR       9         RID       9         MDG       9         IATA       9         14.4       Packing group         ADR       III         RD       III         ADN       III         IATA       III         MDG       III         IATA       III         ADR       not applicable         RD       not applicable         MDG       Marine pollutant         IATA       not applicable         MDN       not applicable         MDN       not applicable         MDN       not applicable  |       | ADN   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                             |  |  |  |
| IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin<br>resin) I4.3. Transport hazard class(es) ADR 9 RID 9 ADN 9 MDG 9 IATA 9 IMDG 9 IATA 9 IATA 9 IMDG 10 IIATA 9 III ADR 11 ADR 11 ADR 11 IMDG 11 IATA 11 IIII IATA 11 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  |       | IMDG  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                             |  |  |  |
| ADR       9         ADN       9         ADN       9         IATA       9         14.       Packing group         ADR       III         RID       II         ADN       III         ATA       III         ATA       III         ATA       III         ATA       III         ATA       III         ADN       not applicable         RID       not applicable         Tunnelcode:       RID         RID       not applicable         IMDG       not applicable         IMDG       not applicable         IMDG       not applicable         IMDG       not applicable      <  |       | ΙΑΤΑ  | Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin |  |  |  |
| RID       9         ADN       9         IMDG       9         IATA       9         14.4.       Packing group         ADR       III         RID       III         ADN       III         ADN       III         ADN       III         MON       III         MON       III         ADN       not applicable         IMDG       Not applicable         Tunnelcode:       RID         RID       not applicable         IMDG       not applicable         IMDG       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable <th>14.3.</th> <th>Transport ha</th> <th>azard class(es)</th>  | 14.3. | Transport ha  | azard class(es)   |  |  |  |
| RID       9         ADN       9         IMDG       9         IATA       9         14.4.       Packing group         ADR       III         RID       III         ADN       III         ADN       III         ADN       III         MON       III         MON       III         ADN       not applicable         IMDG       Not applicable         Tunnelcode:       RID         RID       not applicable         IMDG       not applicable         IMDG       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable <th></th> <th></th> <th>Q</th>   |       |   | Q   |  |  |  |
| ADN 9<br>IMDG 9<br>IATA 9<br>14.4. Packing group<br>ADR III<br>MDD III<br>ADN III<br>IMDG III<br>IATA III<br>14.5. Environmental hzards<br>ADR not applicable<br>MDD not applicable<br>IMDG Marine pollutant<br>IATA not applicable<br>IMDG Marine pollutant<br>IATA not applicable<br>IMDG Marine pollutant<br>IATA not applicable<br>MDDG not applicable<br>MDDG not applicable<br>Tunnelcode:<br>RID not applicable<br>MDDG not applicable<br>Tunnelcode:<br>RID not applicable<br>MDG not applicable<br>Tunnelcode:<br>RID not applicable<br>MDG not applicable<br>Tunnelcode:<br>RID not applicable<br>MDG not applicable<br>Tunnelcode:<br>RID not applicable<br>MDG not applicable<br>MDG not applicable<br>Tunnelcode:<br>RID not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>MDG not applicable<br>(MDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.   |       |   |   |  |  |  |
| IMDG       9         I44.       Packing group         ADR       III         RID       III         ADN       III         IMDG       III         IATA       III         ADN       III         IATA       III         ADN       III         IATA       III         ADR       not applicable         RID       not applicable         ADN       not applicable         IMDG       Marine pollutant         IATA       not applicable         MDG       Marine pollutant         IATA       not applicable         MDG       not applicable         IMDG       not applicable         MDG       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable         IA   |       |   |   |  |  |  |
| IATA 9 IATA 9 IATA 9 IATA Packing group IADR III ADR III ADN III MDG III IATA II I II III III III III III III III II   |       |   |   |  |  |  |
| 14.1       Packing group         ADR       III         RID       III         ADN       III         MDG       III         IATA       III         ADR       not applicable         RID       not applicable         ADN       not applicable         MDG       Marine pollutant         IATA       not applicable         MDR       not app   |       |   |   |  |  |  |
| ADR       III         RD       III         ADN       III         IMDG       III         IMDG       III         IATA       III         14.5.       Environmental hazards         ADR       not applicable         ADN       not applicable         ADN       not applicable         IMDG       Marine pollutant         IATA       III         14.6.       Special precautions for user         ADR       not applicable         Tonnelcode:       RID         RID       not applicable         ADN       not applicable         MDG       not applicable         The ransport classifications in this section apply generally to packed and bulk goods alike. For         containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.  | 14.4  |   |   |  |  |  |
| RID       III         ADN       III         IMDG       III         ATA       III         ADR       not applicable         RID       not applicable         MDG       Marine pollutant         IATA       not applicable         MDG       Marine pollutant         IATA       not applicable         ThATA       not applicable         Thom not applicable       Tunnelcode:         RID       not applicable         IMDG       not applicable         IMTA       not applica  | 14.4. | I acking grou   | μ   |  |  |  |
| ADN III<br>IMDG III<br>IATA III<br>14.5. Environmental bazards<br>ADR not applicable<br>RID not applicable<br>ADN not applicable<br>IMDG Marine pollutant<br>IATA not applicable<br>14.6. Special precautions for user<br>ADR not applicable<br>Tunnelcode:<br>RID not applicable<br>ADN not applicable<br>IMDG not applicable<br>IATA not applicable<br>Tunnelcode:<br>RID not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable<br>IATA not applicable IATA not applicable IATA not applicable<br>IATA not applicable IATA NOTA IATA N   |       | ADR   | III   |  |  |  |
| IMDG       III         IATA       III         ADR       not applicable         ADN       not applicable         ADN       not applicable         ADN       not applicable         IMDG       Marine pollutant         IATA       not applicable         IMDG       Marine pollutant         IATA       not applicable         MDG       not applicable         Tunnelcode:       Tunnelcode:         RID       not applicable         IATA       not applica  |       | RID   | III   |  |  |  |
| IATA II<br>14.5. Environmental bazards<br>ADR not applicable<br>RID not applicable<br>ADN not applicable<br>IMDG Marine pollutant<br>IATA not applicable<br>Tunnelcode:<br>RID not applicable<br>ADN not applicable<br>MDG not applicable<br>IMDG not applicable<br>IATA not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IATA not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IMDG   |       | ADN   | III   |  |  |  |
| 14.5.       Environmental hazards         ADR       not applicable         RID       not applicable         ADN       not applicable         IMDG       Marine pollutant         IATA       not applicable         TAM       Special precautions for user         ADN       not applicable         Tunnelcode:       Tunnelcode:         RID       not applicable         ADN       not applicable         IMDG       not applicable         Tunnelcode:       Tunnelcode:         RID       not applicable         IMDG       not applicable         IMDG       not applicable         Solow       not applicable         ADN       not applicable         ADN       not applicable         IMDG       not applicable         IMDG       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable         IMDG       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable   |       | IMDG  | III   |  |  |  |
| ADR       not applicable         RID       not applicable         ADN       not applicable         ADG       Marine pollutant         IATA       not applicable         14.6.       Special precautions for user         ADR       not applicable         Tunnelcode:       RID         RID       not applicable         ADN       not applicable         IMDG       not applicable         IATA       not applicable         The transport classifications in this section apply generally to packed and bulk goods alike. For         containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.  |       | IATA  | III   |  |  |  |
| RID       not applicable         ADN       not applicable         IMDG       Marine pollutant         IATA       not applicable         14.6.       Special precautions for user         ADR       not applicable         Tunnelcode:       RID         RID       not applicable         ADR       not applicable         MDG       not applicable         Tunnelcode:       RID         RID       not applicable         ADN       not applicable         IMDG       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable         The transport classifications in this section apply generally to packed and bulk goods alike. For         containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.   | 14.5. | Environmental hazards   |   |  |  |  |
| RID       not applicable         ADN       not applicable         IMDG       Marine pollutant         IATA       not applicable         14.6.       Special precautions for user         ADR       not applicable         Tunnelcode:       RID         RID       not applicable         ADR       not applicable         MDG       not applicable         Tunnelcode:       RID         RID       not applicable         ADN       not applicable         IMDG       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable         IATA       not applicable         The transport classifications in this section apply generally to packed and bulk goods alike. For         containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.   |       | ADR   | not applicable  |  |  |  |
| ADN not applicable<br>IMDG Marine pollutant<br>IATA not applicable<br>14.6. Special precautions for user<br>ADR not applicable<br>Tunnelcode:<br>RID not applicable<br>ADN not applicable<br>IMDG not applicable<br>IMDG not applicable<br>IATA not applicable<br>The transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.  |       |   |   |  |  |  |
| IMDG<br>IATAMarine pollutant<br>not applicable14.6.Special precautions for userADR<br>Tunnelcode:ADR<br>Tunnelcode:RID<br>ADN<br>NOT applicable<br>IMDG<br>IATAnot applicable<br>not applicableIMDG<br>ADN<br>Not applicable<br>IATAnot applicable<br>Tunnelcode:The transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.   |       | ADN   |   |  |  |  |
| IATAnot applicable14.6.Special precautions for userADRnot applicableTunnelcode:RIDRIDnot applicableADNnot applicableIMDGnot applicableIATAnot applicableIATApoint applicableIATAnot applicableIATAnot applicableIATAnot applicableIATApoint applicableIATAnot applicableIATAnot applicableIATApoint applicableIATAnot applicableIATAnot applicableIATApoint applicableIATA <td< th=""><th></th><th></th><th></th></td<>  |       |   |   |  |  |  |
| ADRnot applicable<br>Tunnelcode:RIDnot applicableADNnot applicableADNnot applicableIMDGnot applicableIATAnot applicableThe transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.   |       | IATA  | •   |  |  |  |
| Tunnelcode:RIDnot applicableADNnot applicableIMDGnot applicableIATAnot applicableIATAnot applicableThe transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.   | 14.6. |   |   |  |  |  |
| Tunnelcode:RIDnot applicableADNnot applicableIMDGnot applicableIATAnot applicableIATAnot applicableThe transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.   |       | ADR   | not applicable  |  |  |  |
| RIDnot applicableADNnot applicableIMDGnot applicableIATAnot applicableIATAnot applicableThe transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.  |       | ADK   |   |  |  |  |
| ADNnot applicableIMDGnot applicableIATAnot applicableIATAnot applicableThe transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.   |       | RID   |   |  |  |  |
| IMDGnot applicableIATAnot applicableThe transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.  |       |   |   |  |  |  |
| IATA not applicable<br>The transport classifications in this section apply generally to packed and bulk goods alike. For<br>containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5<br>kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA),<br>969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed<br>goods.   |       |   |   |  |  |  |
| The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.  |       |   |   |  |  |  |
| containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.  |       |   |   |  |  |  |
| kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.   |       |   |   |  |  |  |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code   |       | kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed |   |  |  |  |
|  | 14.7. | Transport in  | bulk according to Annex II of Marpol and the IBC Code                           |  |  |  |

not applicable

# **SECTION 15: Regulatory information**

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

VOC content (2010/75/EC) < 3,00 %

#### **15.2.** Chemical safety assessment

A chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.

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.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

11412 Harmun to aquatic me with long fasting creets.

#### **Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.