



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

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LOCTITE ABLESTIK 2332

SDS No. : 373918  
V004.0

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Replaces version from: 04.09.2015

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

#### 1.1. Product identifier

LOCTITE ABLESTIK 2332

#### Contains:

Epichlorohyd.-bisphenol A resin MW<=700  
Amide polymer  
Trimethylolpropane triglycidyl ether  
Bisphenol-F epichlorhydrin resin; MW<700

#### 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 damage** Category 1

||| **H318 Causes serious eye damage.**

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

||| **Toxic to reproduction** Category 1B


||| **H360 May damage fertility or the unborn child.**

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Label elements (CLP):

|  |  |
|--|--|
| <b>Hazard pictogram:</b>                       |    |
| <b>Signal word:</b>                            | Danger   |
| <b>Hazard statement:</b>                       | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H360 May damage fertility or the unborn child.<br>H411 Toxic to aquatic life with long lasting effects.  |
| <b>Supplemental information</b>                | Restricted to professional users.  |
| <b>Precautionary statement:<br/>Prevention</b> | P201 Obtain special instructions before use.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.  |
| <b>Precautionary statement:<br/>Response</b>   | P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

**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:**

Adhesive

**Base substances of preparation:**

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   |
|--|--|-----------|--|
| Epichlorohyd.-bisphenol A resin<br>MW<=700<br>25068-38-6 | 500-033-5<br>500-033-5<br>01-2119456619-26 | 50- 100 % | Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319<br>Aquatic Chronic 2<br>H411                   |
| Amide polymer<br>68318-44-5                              |  | 20- 40 %  | Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319  |
| Fenuron<br>101-42-8                                      | 202-941-4                                  | 5- < 10 % | Eye Irrit. 2<br>H319<br>STOT SE 3<br>H335<br>Repr. 2<br>H361d<br>Aquatic Chronic 2<br>H411                           |
| Trimethylolpropane triglycidyl ether<br>30499-70-8       |  | 5- < 10 % | Skin Irrit. 2<br>H315<br>Eye Dam. 1<br>H318<br>Skin Sens. 1<br>H317<br>Repr. 1B<br>H360<br>Aquatic Chronic 2<br>H411 |
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5    | 500-006-8<br>500-006-8<br>01-2119454392-40 | 1- < 3 %  | Skin Irrit. 2; Dermal<br>H315<br>Skin Sens. 1A<br>H317<br>Aquatic Chronic 2<br>H411                                  |

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:

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

#### 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

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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:**

water, carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) 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.

**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.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid skin and eye contact.

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**

Ensure good ventilation/extraction.

Keep container tightly sealed.

Store in a cool, well-ventilated place.

**7.3. Specific end use(s)**

Epoxy adhesive

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

**8.1. Control parameters**

**Occupational Exposure Limits**

Valid for  
Great Britain

None

**Occupational Exposure Limits**

Valid for  
Ireland

None

**Predicted No-Effect Concentration (PNEC):**

| Name on list   | Environmental Compartment    | Exposure period | Value       |     |              |        | Remarks |
|--|------------------------------|-----------------|-------------|-----|--------------|--------|---------|
|  |                              |                 | mg/l        | ppm | mg/kg        | others |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | aqua (freshwater)            |                 | 0,006 mg/l  |     |              |        |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | aqua (marine water)          |                 | 0,001 mg/l  |     |              |        |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | sewage treatment plant (STP) |                 | 10 mg/l     |     |              |        |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | sediment (freshwater)        |                 |             |     | 0,996 mg/kg  |        |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | sediment (marine water)      |                 |             |     | 0,1 mg/kg    |        |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | soil                         |                 |             |     | 0,196 mg/kg  |        |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | oral                         |                 |             |     | 11 mg/kg     |        |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | aqua (intermittent releases) |                 | 0,018 mg/l  |     |              |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | aqua (freshwater)            |                 | 0,003 mg/l  |     |              |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | aqua (marine water)          |                 | 0,0003 mg/l |     |              |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | sewage treatment plant (STP) |                 | 10 mg/l     |     |              |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | sediment (freshwater)        |                 |             |     | 0,294 mg/kg  |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | sediment (marine water)      |                 |             |     | 0,0294 mg/kg |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | soil                         |                 |             |     | 0,237 mg/kg  |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | aqua (intermittent releases) |                 | 0,0254 mg/l |     |              |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | Air                          |                 |             |     |              |        |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | Predator                     |                 |             |     |              |        |         |

**Derived No-Effect Level (DNEL):**

| Name on list   | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value        | Remarks |
|--|--------------------|-------------------|--|---------------|--------------|---------|
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 8,33 mg/kg   |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | Workers            | Inhalation        | Acute/short term exposure - systemic effects |               | 12,25 mg/m3  |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | Workers            | dermal            | Long term exposure - systemic effects        |               | 8,33 mg/kg   |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | Workers            | Inhalation        | Long term exposure - systemic effects        |               | 12,25 mg/m3  |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | General population | dermal            | Acute/short term exposure - systemic effects |               | 3,571 mg/kg  |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | General population | dermal            | Long term exposure - systemic effects        |               | 3,571 mg/kg  |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | General population | oral              | Acute/short term exposure - systemic effects |               | 0,75 mg/kg   |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | General population | oral              | Long term exposure - systemic effects        |               | 0,75 mg/kg   |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | General population | inhalation        | Acute/short term exposure - systemic effects |               | 0,75 mg/m3   |         |
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>25068-38-6 | General population | inhalation        | Long term exposure - systemic effects        |               | 0,75 mg/m3   |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | Workers            | dermal            | Long term exposure - systemic effects        |               | 104,15 mg/kg |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | Workers            | Inhalation        | Long term exposure - systemic effects        |               | 29,39 mg/m3  |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | General population | dermal            | Long term exposure - systemic effects        |               | 62,5 mg/kg   |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | General population | Inhalation        | Long term exposure - systemic effects        |               | 8,7 mg/m3    |         |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)<br>9003-36-5  | General population | oral              | Long term exposure - systemic effects        |               | 6,25 mg/kg   |         |

**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:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

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                             | solid<br>solid<br>black            |
| Odor                                   | mild                               |
| Odour threshold                        | No data available / Not applicable |
| pH                                     | No data available / Not applicable |
| Melting point                          | No data available / Not applicable |
| Solidification temperature             | No data available / Not applicable |
| Initial boiling point                  | No data available / Not applicable |
| Flash point                            | > 100 °C (> 212 °F)                |
| Evaporation rate                       | No data available / Not applicable |
| Flammability                           | No data available / Not applicable |
| Explosive limits                       | No data available / Not applicable |
| Vapour pressure                        | No data available / Not applicable |
| Relative vapour density:               | No data available / Not applicable |
| Density                                | No data available / Not applicable |
| Bulk density                           | No data available / Not applicable |
| Solubility                             | No data available / Not applicable |
| Solubility (qualitative)               | No data available / Not applicable |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature              | No data available / Not applicable |
| Decomposition temperature              | No data available / Not applicable |
| Viscosity                              | 65 - 85 pa.s                       |
| ( )                                    |                                    |
| 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**

Reacts with alcohols and amines.

Reacts with oxidants, acids and lyes

Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

Hydrocarbons

carbon oxides.

nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

**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                                   |
|---|---------------|---------------|---------|--|
| Epichlorohyd.-bisphenol<br>A resin MW<=700<br>25068-38-6    | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 420 (Acute Oral Toxicity) |
| Fenuron<br>101-42-8   | LD50          | 6.400 mg/kg   | rat     | not specified                            |
| Trimethylolpropane<br>triglycidyl ether<br>30499-70-8       | LD50          | > 2.000 mg/kg | rat     | not specified                            |
| Bisphenol-F<br>epichlorhydrin resin;<br>MW<700<br>9003-36-5 | LD50          | > 5.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity) |

**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                                     |
|---|---------------|---------------|---------|--|
| Epichlorohyd.-bisphenol<br>A resin MW<=700<br>25068-38-6    | LD50          | > 2.000 mg/kg | rat     | not specified                              |
| Fenuron<br>101-42-8   | LD50          | > 8.000 mg/kg | rat     | not specified                              |
| Trimethylolpropane<br>triglycidyl ether<br>30499-70-8       | LD50          | > 2.000 mg/kg | rat     | not specified                              |
| Bisphenol-F<br>epichlorhydrin resin;<br>MW<700<br>9003-36-5 | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

No data available.

**Skin corrosion/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   |
|---|--------------------------|------------------|---|--|
| Epichlorohyd.-bisphenol<br>A resin MW<=700<br>25068-38-6    | moderately<br>irritating | 24 h             | rabbit  | Draize Test  |
| Trimethylolpropane<br>triglycidyl ether<br>30499-70-8       | not corrosive            |                  | Human,<br>EpiDerm™ SIT<br>(EPI-200),<br>Reconstructed<br>Human<br>Epidermis (RHE) | OECD Guideline 431 (In Vitro Skin Corrosion:<br>Reconstructed Human Epidermis (RHE) Test Method) |
| Bisphenol-F<br>epichlorhydrin resin;<br>MW<700<br>9003-36-5 | irritating               | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)   |

**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  |
|---|----------------|------------------|---------|---|
| Epichlorohyd.-bisphenol<br>A resin MW<=700<br>25068-38-6    | not irritating |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Bisphenol-F<br>epichlorhydrin resin;<br>MW<700<br>9003-36-5 | not irritating |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**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   |
|---|-------------|---------------------------------------|---------|--|
| Epichlorohyd.-bisphenol<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) |
| Bisphenol-F<br>epichlorhydrin resin;<br>MW<700<br>9003-36-5 | 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 CAS-No.                          | Result   | Type of study / Route of administration          | Metabolic activation / Exposure time | Species | Method   |
|---|----------|--|--------------------------------------|---------|--|
| Epichlorohyd.-bisphenol A resin MW<=700<br>25068-38-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                     |         | OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)            |
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | positive | bacterial reverse mutation assay (e.g Ames test) | with and without                     |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)  |
| Epichlorohyd.-bisphenol A resin MW<=700<br>25068-38-6 | negative | oral: gavage                                     |                                      | mouse   | not specified  |
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | negative | oral: gavage                                     |                                      | mouse   | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)                                 |
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | negative | oral: gavage                                     |                                      | rat     | OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) |

**Carcinogenicity**

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

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

**Reproductive toxicity:**

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

| Hazardous substances CAS-No.                          | Result / Value  | Test type            | Route of application | Species | Method  |
|---|---|----------------------|----------------------|---------|---|
| Epichlorohyd.-bisphenol 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 generation study | oral: gavage         | rat     | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | NOAEL P > 750 mg/kg<br>NOAEL F1 750 mg/kg<br>NOAEL F2 750 mg/kg       | two-generation study | oral: gavage         | rat     | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

**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.

| <b>Hazardous substances<br/>CAS-No.</b>                     | <b>Result / Value</b> | <b>Route of<br/>application</b> | <b>Exposure time /<br/>Frequency of<br/>treatment</b> | <b>Species</b> | <b>Method</b>  |
|---|-----------------------|---------------------------------|---|----------------|--|
| Epichlorohyd.-bisphenol<br>A resin MW<=700<br>25068-38-6    | NOAEL 50 mg/kg        | oral: gavage                    | 14 w<br>daily   | rat            | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents) |
| Bisphenol-F<br>epichlorhydrin resin;<br>MW<700<br>9003-36-5 | NOAEL 250 mg/kg       | oral: gavage                    | 13 w<br>daily   | rat            | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents) |

**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<br>CAS-No.                          | Value<br>type | Value     | Exposure time | Species             | Method  |
|--|---------------|-----------|---------------|---------------------|---|
| Epichlorohyd.-bisphenol A<br>resin MW<=700<br>25068-38-6 | LC50          | 1,75 mg/l | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| Fenuron<br>101-42-8                                      | LC50          | 204 mg/l  | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| Trimethylolpropane<br>triglycidyl ether<br>30499-70-8    | LC50          | 75 mg/l   | 96 h          | Cyprinus carpio     | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| Bisphenol-F epichlorhydrin<br>resin; MW<700<br>9003-36-5 | LC50          | 5,7 mg/l  | 96 h          | Leuciscus idus      | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |

#### Toxicity (Daphnia):

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     | Exposure time | Species       | Method   |
|--|---------------|-----------|---------------|---------------|--|
| Epichlorohyd.-bisphenol A<br>resin MW<=700<br>25068-38-6 | EC50          | 1,7 mg/l  | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Trimethylolpropane triglycidyl<br>ether<br>30499-70-8    | EC50          | 3,7 mg/l  | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Bisphenol-F epichlorhydrin<br>resin; MW<700<br>9003-36-5 | EC50          | 2,55 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

#### Chronic toxicity to aquatic invertebrates

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    | Exposure time | Species       | Method   |
|--|---------------|----------|---------------|---------------|--|
| Epichlorohyd.-bisphenol 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) |
| Bisphenol-F epichlorhydrin<br>resin; MW<700<br>9003-36-5 | NOEC          | 0,3 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |

#### Toxicity (Algae):

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     | Exposure time | Species                         | Method   |
|--|---------------|-----------|---------------|---------------------------------|--|
| Epichlorohyd.-bisphenol 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) |
| Epichlorohyd.-bisphenol 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) |
| Fenuron<br>101-42-8                                      | EC50          | 1,55 mg/l |               | Ankistrodesmus falcatus         | not specified  |
| Trimethylolpropane triglycidyl<br>ether<br>30499-70-8    | EC50          | 9 mg/l    | 72 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Trimethylolpropane triglycidyl<br>ether<br>30499-70-8    | NOEC          | 2,5 mg/l  | 72 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Bisphenol-F epichlorhydrin<br>resin; MW<700<br>9003-36-5 | EC50          | 1,8 mg/l  | 72 h          | Pseudokirchneriella 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<br>CAS-No.                          | Value<br>type | Value      | Exposure time | Species                      | Method           |
|--|---------------|------------|---------------|------------------------------|------------------|
| Epichlorohyd.-bisphenol A<br>resin MW<=700<br>25068-38-6 | IC50          | > 100 mg/l | 3 h           | activated sludge, industrial | other guideline: |
| Bisphenol-F epichlorhydrin<br>resin; MW<700<br>9003-36-5 | IC50          | > 100 mg/l | 3 h           | activated sludge, industrial | other guideline: |

### 12.2. Persistence and degradability

The product is not biodegradable.

| Hazardous substances<br>CAS-No.                          | Result                          | Test type | Degradability | Exposure<br>time | Method  |
|--|---------------------------------|-----------|---------------|------------------|---|
| Epichlorohyd.-bisphenol 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) |
| Fenuron<br>101-42-8                                      | not readily biodegradable.      | aerobic   | > 0 - < 60 %  | 28 d             | OECD 301 A - F  |
| Trimethylolpropane triglycidyl<br>ether<br>30499-70-8    | not readily biodegradable.      | aerobic   | 8 %           | 28 d             | OECD Guideline 301 F (Ready<br>Biodegradability: Manometric<br>Respirometry Test) |
| Trimethylolpropane triglycidyl<br>ether<br>30499-70-8    | not inherently<br>biodegradable | aerobic   | 25 %          | 28 d             | OECD Guideline 302 B (Inherent<br>biodegradability: Zahn-<br>Wellens/EMPA Test)   |
| Bisphenol-F epichlorhydrin<br>resin; MW<700<br>9003-36-5 | not readily biodegradable.      | aerobic   | 0 %           | 28 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        |
|---------------------------------|-----------------------------------|---------------|-------------|---------------|---------------|
| Fenuron<br>101-42-8             | 6                                 |               |             | not specified | not specified |

### 12.4. Mobility in soil

Cured adhesives are immobile.

| Hazardous substances<br>CAS-No.                       | LogPow    | Temperature | Method  |
|---|-----------|-------------|---|
| Epichlorohyd.-bisphenol A resin MW<=700<br>25068-38-6 | 3,242     | 25 °C       | EU Method A.8 (Partition Coefficient)                                       |
| Fenuron<br>101-42-8                                   | 0,98      |             | not specified   |
| Trimethylolpropane triglycidyl ether<br>30499-70-8    | < 3       |             | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | 2,7 - 3,6 |             | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |

### 12.5. Results of PBT and vPvB assessment

| Hazardous substances<br>CAS-No.                       | PBT / vPvB  |
|---|---|
| Epichlorohyd.-bisphenol A resin MW<=700<br>25068-38-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | 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.

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.

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.

|  |
|--|
| <b>SECTION 14: Transport information</b> |
|--|

**14.1. UN number**

|      |      |
|------|------|
| ADR  | 3082 |
| RID  | 3082 |
| ADN  | 3082 |
| IMDG | 3082 |
| IATA | 3082 |

**14.2. UN proper shipping name**

|      |   |
|------|---|
| ADR  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) |
| RID  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) |
| ADN  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) |
| IATA | Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin) |

**14.3. Transport hazard class(es)**

|      |   |
|------|---|
| ADR  | 9 |
| RID  | 9 |
| ADN  | 9 |
| IMDG | 9 |
| IATA | 9 |

**14.4. Packing group**

|      |     |
|------|-----|
| ADR  | III |
| RID  | III |
| ADN  | III |
| IMDG | III |
| IATA | III |

**14.5. Environmental hazards**

|      |                  |
|------|------------------|
| ADR  | not applicable   |
| RID  | not applicable   |
| ADN  | not applicable   |
| IMDG | Marine pollutant |
| IATA | not applicable   |

**14.6. Special precautions for user**

|      |                               |
|------|-------------------------------|
| ADR  | not applicable<br>Tunnelcode: |
| 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.

**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 < 3 %  
(2010/75/EC)

**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:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H360 May damage fertility or the unborn child.
- H361d Suspected of damaging the unborn child.
- H411 Toxic to aquatic life with long lasting effects.

**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.**