

**KALEKİM**  
**1302 EPOTECH W PART A**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** KALEKİM  
1302 EPOTECH W PART A
- Other means of identification:**  
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses (Consumer use): Epoxy resin based product for structural repair of concrete structures  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
KALEKİM Kimyevi Maddeler Sanayi ve Ticaret A.Ş.  
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34325 İstanbul - TÜRKİYE  
Phone: +90 212 423 00 18 - Fax: +90 212 423 31 88  
msds@kale.com.tr  
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- 1.4 Emergency telephone number:** 114

## SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1: Sensitisation, skin, Category 1, H317
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
**Warning**
- 

- Hazard statements:**  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment
- Supplementary information:**  
EUH205: Contains epoxy constituents. May produce an allergic reaction.
- Substances that contribute to the classification**  
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700); Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; Alkil(C12-14) glisidil eter
- 2.3 Other hazards:**  
Product does not meet PBT/vPvB criteria  
Endocrine-disrupting properties: The product does not meet the criteria.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**3.1 Substance:**

Not relevant

**3.2 Mixture:**
**Chemical description:** Mixture of epoxy resin(s), filler(s) and additive(s)

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification                                                                         | Chemical name/Classification                                                                                                                       |                                                                                                                                                                                    | Concentration        |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| CAS: 25068-38-6<br>EC: 500-033-5<br>Index: 603-074-00-8<br>REACH: Not relevant         | <b>reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <math>\leq 700</math>)<sup>(1)</sup></b> ATP CLP00 |                                                                                                                                                                                    | <b>10 - &lt;25%</b>  |
|                                                                                        | Regulation 1272/2008                                                                                                                               | Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning  |                      |
| CAS: 9003-36-5<br>EC: 500-006-8<br>Index: Not relevant<br>REACH: 01-2119454392-40-XXXX | <b>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<sup>(1)</sup></b> Self-classified                          |                                                                                                                                                                                    | <b>2.5 - &lt;10%</b> |
|                                                                                        | Regulation 1272/2008                                                                                                                               | Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning                      |                      |
| CAS: Not relevant<br>EC: Not relevant<br>Index: Not relevant<br>REACH: Not relevant    | <b>Alkil(C12-14) glisidil eter<sup>(1)</sup></b> ATP CLP00                                                                                         |                                                                                                                                                                                    | <b>1 - &lt;2.5%</b>  |
|                                                                                        | Regulation 1272/2008                                                                                                                               | Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning                                               |                      |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**Other information:**

| Identification                                                                                                                                | Specific concentration limit                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )<br>CAS: 25068-38-6<br>EC: 500-033-5 | % (w/w) $\geq 5$ : Skin Irrit. 2 - H315<br>% (w/w) $\geq 5$ : Eye Irrit. 2 - H319 |

**SECTION 4: FIRST AID MEASURES**
**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

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**SECTION 4: FIRST AID MEASURES (continued)**

Not relevant

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

**Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

Non-applicable

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

**For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

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**SECTION 7: HANDLING AND STORAGE (continued)**
**7.1 Precautions for safe handling:**
**A.- General precautions for safe use**

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

**B.- Technical recommendations for the prevention of fires and explosions**

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

**C.- Technical recommendations on general occupational hygiene**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

**7.2 Conditions for safe storage, including any incompatibilities:**
**A.- Specific storage requirements**

Minimum Temp.: 5 °C

Maximum Temp.: 35 °C

**B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

**DNEL (Workers):**

| Identification                                                                                                                             |            | Short exposure |              | Long exposure           |              |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|--------------|-------------------------|--------------|
|                                                                                                                                            |            | Systemic       | Local        | Systemic                | Local        |
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin<br>(number average molecular weight ≤ 700)<br>CAS: 25068-38-6<br>EC: 500-033-5 | Oral       | Not relevant   | Not relevant | Not relevant            | Not relevant |
|                                                                                                                                            | Dermal     | Not relevant   | Not relevant | 0,75 mg/kg              | Not relevant |
|                                                                                                                                            | Inhalation | Not relevant   | Not relevant | 4,93 mg/m <sup>3</sup>  | Not relevant |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<br>CAS: 9003-36-5<br>EC: 500-006-8                    | Oral       | Not relevant   | Not relevant | Not relevant            | Not relevant |
|                                                                                                                                            | Dermal     | Not relevant   | Not relevant | 104,15 mg/kg            | Not relevant |
|                                                                                                                                            | Inhalation | Not relevant   | Not relevant | 29,39 mg/m <sup>3</sup> | Not relevant |
| Alkil(C12-14) glisidil eter<br>CAS: Not relevant<br>EC: Not relevant                                                                       | Oral       | Not relevant   | Not relevant | Not relevant            | Not relevant |
|                                                                                                                                            | Dermal     | Not relevant   | Not relevant | 1 mg/kg                 | Not relevant |
|                                                                                                                                            | Inhalation | Not relevant   | Not relevant | 3,6 mg/m <sup>3</sup>   | Not relevant |

**DNEL (General population):**

| Identification                                                                                                                             |            | Short exposure |              | Long exposure          |              |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|--------------|------------------------|--------------|
|                                                                                                                                            |            | Systemic       | Local        | Systemic               | Local        |
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin<br>(number average molecular weight ≤ 700)<br>CAS: 25068-38-6<br>EC: 500-033-5 | Oral       | Not relevant   | Not relevant | 0,5 mg/kg              | Not relevant |
|                                                                                                                                            | Dermal     | Not relevant   | Not relevant | 0,0893 mg/kg           | Not relevant |
|                                                                                                                                            | Inhalation | Not relevant   | Not relevant | 0,87 mg/m <sup>3</sup> | Not relevant |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification                                                                                                          |            | Short exposure |              | Long exposure          |              |
|-------------------------------------------------------------------------------------------------------------------------|------------|----------------|--------------|------------------------|--------------|
|                                                                                                                         |            | Systemic       | Local        | Systemic               | Local        |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<br>CAS: 9003-36-5<br>EC: 500-006-8 | Oral       | Not relevant   | Not relevant | 6,25 mg/kg             | Not relevant |
|                                                                                                                         | Dermal     | Not relevant   | Not relevant | 62,5 mg/kg             | Not relevant |
|                                                                                                                         | Inhalation | Not relevant   | Not relevant | 8,7 mg/m <sup>3</sup>  | Not relevant |
| Alkil(C12-14) glisidil eter<br>CAS: Not relevant<br>EC: Not relevant                                                    | Oral       | Not relevant   | Not relevant | 0,5 mg/kg              | Not relevant |
|                                                                                                                         | Dermal     | Not relevant   | Not relevant | 0,5 mg/kg              | Not relevant |
|                                                                                                                         | Inhalation | Not relevant   | Not relevant | 0,87 mg/m <sup>3</sup> | Not relevant |

**PNEC:**

| Identification                                                                                                                             |              |              |                         |              |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------------------|--------------|
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin<br>(number average molecular weight ≤ 700)<br>CAS: 25068-38-6<br>EC: 500-033-5 | STP          | 10 mg/L      | Fresh water             | 0,006 mg/L   |
|                                                                                                                                            | Soil         | 0,065 mg/kg  | Marine water            | 0,001 mg/L   |
|                                                                                                                                            | Intermittent | 0,018 mg/L   | Sediment (Fresh water)  | 0,341 mg/kg  |
|                                                                                                                                            | Oral         | 0,011 g/kg   | Sediment (Marine water) | 0,034 mg/kg  |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<br>CAS: 9003-36-5<br>EC: 500-006-8                    | STP          | 10 mg/L      | Fresh water             | 0,003 mg/L   |
|                                                                                                                                            | Soil         | 0,237 mg/kg  | Marine water            | 0 mg/L       |
|                                                                                                                                            | Intermittent | 0,025 mg/L   | Sediment (Fresh water)  | 0,294 mg/kg  |
|                                                                                                                                            | Oral         | Not relevant | Sediment (Marine water) | 0,029 mg/kg  |
| Alkil(C12-14) glisidil eter<br>CAS: Not relevant<br>EC: Not relevant                                                                       | STP          | 10 mg/L      | Fresh water             | 0,106 mg/L   |
|                                                                                                                                            | Soil         | 1,234 mg/kg  | Marine water            | 0,011 mg/L   |
|                                                                                                                                            | Intermittent | 0,072 mg/L   | Sediment (Fresh water)  | 307,16 mg/kg |
|                                                                                                                                            | Oral         | Not relevant | Sediment (Marine water) | 30,72 mg/kg  |

**8.2 Exposure controls:**
**A.- Individual protection measures, such as personal protective equipment**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

| Pictogram                                                                                                                     | PPE                                                | Labelling                                                                                      | CEN Standard        | Remarks                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours (Filter type: A) | <br>CAT III | EN 405:2002+A1:2010 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

**C.- Specific protection for the hands**

| Pictogram                                                                                                        | PPE                                                                      | Labelling                                                                                      | CEN Standard      | Remarks                                          |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------|
| <br>Mandatory hand protection | Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min) | <br>CAT III | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

**D.- Eye and face protection**

| Pictogram                                                                                                        | PPE                                           | Labelling                                                                                     | CEN Standard                    | Remarks                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. | <br>CAT II | EN 166:2002<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

### **E.- Body protection**

| Pictogram | PPE                  | Labelling                                                                         | CEN Standard      | Remarks                                                                                                                                                                                                                                                           |
|-----------|----------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | Work clothing        |  |                   | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |
|           | Anti-slip work shoes |  | EN ISO 20347:2022 | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832-1:2019                                 |

### **F.- Additional emergency measures**

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| Emergency measure                                                                                     | Standards                                       | Emergency measure                                                                                      | Standards                                      |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

### **Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

### **Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                             |
|---------------------------|-----------------------------|
| V.O.C. (Supply):          | 0 % weight                  |
| V.O.C. density at 20 °C:  | 0 kg/m <sup>3</sup> (0 g/L) |
| Average carbon number:    | Not relevant                |
| Average molecular weight: | Not relevant                |

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

For complete information see the product datasheet.

#### **Appearance:**

|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| Physical state at 20 °C: | Liquid                                                                                    |
| Appearance:              | Paste                                                                                     |
| Colour:                  |  Cream |
| Odour:                   | Characteristic                                                                            |
| Odour threshold:         | Not relevant *                                                                            |

#### **Volatility:**

|                                        |                         |
|----------------------------------------|-------------------------|
| Boiling point at atmospheric pressure: | 100 °C                  |
| Vapour pressure at 20 °C:              | 2350 Pa                 |
| Vapour pressure at 50 °C:              | 12381,01 Pa (12,38 kPa) |
| Evaporation rate at 20 °C:             | Not relevant *          |

#### **Product description:**

|                             |                        |
|-----------------------------|------------------------|
| Density at 20 °C:           | 1860 kg/m <sup>3</sup> |
| Relative density at 20 °C:  | 1,86                   |
| Dynamic viscosity at 20 °C: | Not relevant *         |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

|                                              |                          |
|----------------------------------------------|--------------------------|
| Kinematic viscosity at 20 °C:                | Not relevant *           |
| Kinematic viscosity at 40 °C:                | >20,5 mm <sup>2</sup> /s |
| Concentration:                               | Not relevant *           |
| pH:                                          | Not relevant *           |
| Vapour density at 20 °C:                     | Not relevant *           |
| Partition coefficient n-octanol/water 20 °C: | Not relevant *           |
| Solubility in water at 20 °C:                | Not relevant *           |
| Solubility properties:                       | Not relevant *           |
| Decomposition temperature:                   | Not relevant *           |
| Melting point/freezing point:                | Not relevant *           |

**Flammability:**

|                            |                        |
|----------------------------|------------------------|
| Flash Point:               | Non Flammable (>60 °C) |
| Flammability (solid, gas): | Not relevant *         |
| Autoignition temperature:  | Not relevant *         |
| Lower flammability limit:  | Not relevant *         |
| Upper flammability limit:  | Not relevant *         |

**Particle characteristics:**

|                             |                |
|-----------------------------|----------------|
| Median equivalent diameter: | Not relevant * |
|-----------------------------|----------------|

**9.2 Other information:**
**Information with regard to physical hazard classes:**

|                                                              |                |
|--------------------------------------------------------------|----------------|
| Explosive properties:                                        | Not relevant * |
| Oxidising properties:                                        | Not relevant * |
| Corrosive to metals:                                         | Not relevant * |
| Heat of combustion:                                          | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |

**Other safety characteristics:**

|                           |                |
|---------------------------|----------------|
| Surface tension at 20 °C: | Not relevant * |
| Refraction index:         | Not relevant * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**
**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Not applicable      | Not applicable        | Avoid alkalis or strong bases |

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**SECTION 10: STABILITY AND REACTIVITY (continued)**

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: Polyethylene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

Not relevant

**11.2 Information on other hazards:**
**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Not relevant

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

Toxic to aquatic life with long lasting effects.

**12.1 Toxicity:**
**Acute toxicity:**

| Identification                                                                                                                                  | Concentration |                     | Species | Genus      |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|---------|------------|
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin<br>(number average molecular weight $\leq$ 700)<br>CAS: 25068-38-6<br>EC: 500-033-5 | LC50          | >1 - 10 mg/L (96 h) |         | Fish       |
|                                                                                                                                                 | EC50          | >1 - 10 mg/L (48 h) |         | Crustacean |
|                                                                                                                                                 | EC50          | >1 - 10 mg/L (72 h) |         | Algae      |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<br>CAS: 9003-36-5<br>EC: 500-006-8                         | LC50          | >1 - 10 mg/L (96 h) |         | Fish       |
|                                                                                                                                                 | EC50          | >1 - 10 mg/L (48 h) |         | Crustacean |
|                                                                                                                                                 | EC50          | >1 - 10 mg/L (72 h) |         | Algae      |

**Chronic toxicity:**

| Identification                                                                                                                               | Concentration |              | Species       | Genus      |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|---------------|------------|
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin<br>(number average molecular weight $\leq$ 700)<br>CAS: 25068-38-6 EC: 500-033-5 | NOEC          | Not relevant |               |            |
|                                                                                                                                              | NOEC          | 0,3 mg/L     | Daphnia magna | Crustacean |

**12.2 Persistence and degradability:**
**Substance-specific information:**

| Identification                                                                                                                                  | Degradability |              | Biodegradability |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------------|----------|
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin<br>(number average molecular weight $\leq$ 700)<br>CAS: 25068-38-6<br>EC: 500-033-5 | BOD5          | Not relevant | Concentration    | 100 mg/L |
|                                                                                                                                                 | COD           | Not relevant | Period           | 28 days  |
|                                                                                                                                                 | BOD5/COD      | Not relevant | % Biodegradable  | 0 %      |

**12.3 Bioaccumulative potential:**
**Substance-specific information:**

| Identification                                                                                                                               | Bioaccumulation potential |     |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----|
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)<br>CAS: 25068-38-6<br>EC: 500-033-5 | BCF                       | 4   |
|                                                                                                                                              | Pow Log                   | 2.8 |
|                                                                                                                                              | Potential                 | Low |

**12.4 Mobility in soil:**

Not relevant

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods:**

| Code | Description                                                                                 | Waste class (Regulation (EU) No 1357/2014) |
|------|---------------------------------------------------------------------------------------------|--------------------------------------------|
|      | It is not possible to assign a specific code, as it depends on the intended use by the user | Hazardous                                  |

**Type of waste (Regulation (EU) No 1357/2014):**

HP14 Ecotoxic, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION****Transport of dangerous goods by land:**

With regard to ADR 2025 and RID 2025:

**14.1 UN number or ID number:** UN3082**14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700))**14.3 Transport hazard class(es):** 9

Labels: 9

**14.4 Packing group:** III**14.5 Environmental hazards:** Yes**14.6 Special precautions for user**

Special regulations: 274, 335, 375, 601, 650

Tunnel restriction code: -

Physico-Chemical properties: see section 9

Limited quantities: 5 L

**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:

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**SECTION 14: TRANSPORT INFORMATION (continued)**

- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight  $\leq 700$ ))
- 14.3 Transport hazard class(es):** 9
- Labels:** 9
- 14.4 Packing group:** III
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions for user**
- Special regulations: 335, 969, 274
- EmS Codes: F-A, S-F
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- Segregation group: Not relevant
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2025:



- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight  $\leq 700$ ))
- 14.3 Transport hazard class(es):** 9
- Labels:** 9
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
- Physico-Chemical properties: see section 9
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Seveso III:**

| Section | Description           | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| E2      | ENVIRONMENTAL HAZARDS | 200                     | 500                     |

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Laboral exposure to respirable crystalline silica must be controlled in accordance with Directive (EU) 2022/431, of the European Parliament and of the Council, of March 9, 2022, amending Directive 2004/37/EC, relating to the protection of workers against risks related to exposure to carcinogens or mutagens during work.

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**SECTION 15: REGULATORY INFORMATION (continued)**

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

COMMISSION REGULATION (EU) 2020/878

**Texts of the legislative phrases mentioned in section 2:**

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

H319: Causes serious eye irritation.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

**Classification procedure:**

Skin Irrit. 2: Calculation method

Skin Sens. 1: Calculation method

Aquatic Chronic 2: Calculation method

Eye Irrit. 2: Calculation method

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

**Other information:**

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**SECTION 16: OTHER INFORMATION (continued)**

Duygu Avcı; Certificate Nr. Of CAS: NBC04.49.10 (Issue Date: 05.12.2023, Valid Thru: 05.12.28)

Duygu Avcı; Kimyasal Değerlendirme Uzmanı Sertifika Numarası: NBC04.49.10 (Alınma tarihi: 05.12.2023, Geçerlilik süresi: 05.12.28)

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -