

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 08.01.2020

version n° 2

Revision: 08.01.2020

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

- **1.1 Product identifier**
- **Trade name:** ***BIOGEL EXTREME PARTE A***
- **Article number:** 08227.013.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the preparation:** Epoxy resin adhesive
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KERAKOLL Pty Ltd.  
88 Sutton Street, North Melbourne VIC 3051  
Tel. +61 3 9448 8588  
sales@kerakoll.com.au
- **E-mail address of the competent person responsible for the SDS:** safety@kerakoll.com
- **Informing department:** Product safety department
- **1.4 Emergency telephone number:**  
+61 3 9448 8588 (Kerakoll AU)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2            H315 Causes skin irritation.  
 Eye Irrit. 2            H319 Causes serious eye irritation.  
 Skin Sens. 1            H317 May cause an allergic skin reaction.  
 .....  
 Aquatic Chronic 3    H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
bis[4-(2,3-epoxypropoxy)phenyl]propane  
decarboxylating cashew nut shell liquid
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P261                    Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273                    Avoid release to the environment.

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Trade name: **BIOGEL EXTREME PARTE A**

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- P280 Wear protective gloves / eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- Additional information:**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

**- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**- 3.2 Mixtures****- Description:** Mixture consisting of the following components.**- Dangerous components:**

|  |  |            |
|--|--|------------|
| CAS: 1675-54-3<br>EINECS: 216-823-5<br>Index number: 603-073-00-2<br>Reg.nr.: 01-2119456619-26 | bis[4-(2,3-epoxypropoxy)phenyl]propane<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 10-19.9%   |
| CAS: 8007-24-7<br>EINECS: 232-355-4<br>Reg.nr.: 01-2119502450-57-0000                          | decarboxylating cashew nut shell liquid<br>Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317       | ≥0.1-<0.2% |

**- Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**- 4.1 Description of first aid measures****- After inhalation** In case of unconsciousness bring patient into stable side position for transport.**- After skin contact** Instantly wash with water and soap and rinse thoroughly.**- After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

**- After swallowing** In case of persistent symptoms consult doctor.**- 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

**- 5.1 Extinguishing media****- Suitable extinguishing agents** Use fire fighting measures that suit the environment.**- 5.2 Special hazards arising from the substance or mixture**

Formation of poisonous gases during heating or in fires.

**- 5.3 Advice for firefighters****- Protective equipment:** Put on breathing apparatus.

### SECTION 6: Accidental release measures

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

Put on breathing apparatus.

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- **6.2 Environmental precautions:**  
Inform respective authorities in case product reaches water or sewage system.  
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep breathing equipment ready.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

#### - 8.1 Control parameters

- **Components with limit values that require monitoring at the workplace:**

#### 14808-60-7 Quartz ( $\text{Ø} > 10\mu\text{m}$ ) (50-75%)

|                        |   |
|------------------------|---|
| BOELV (Unione Europea) | Long-term value: 0.1* mg/m <sup>3</sup><br>*respirable fraction |
|------------------------|---|

#### 14808-60-7 quartz (<0.01%)

|                        |   |
|------------------------|---|
| BOELV (Unione Europea) | Long-term value: 0.1* mg/m <sup>3</sup><br>*respirable fraction |
|------------------------|---|

- **Additional information:** The lists that were valid during the compilation were used as basis.

#### - 8.2 Exposure controls

##### - Personal protective equipment

##### - General protective and hygienic measures

- Take off immediately all contaminated clothing
- Wash hands during breaks and at the end of the work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

##### - Breathing equipment: Not required.

##### - Protection of hands: Protective gloves.

##### - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

##### - Eye protection: Tightly sealed safety glasses.

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### SECTION 9: Physical and chemical properties

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

##### - General Information

##### - Appearance:

Form: Pasty

Colour: White

- Odour: Light

- Odour threshold: Not determined.

- pH-value: Not determined.

##### - Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

- Flash point: Not flammable

- Inflammability (solid, gaseous) Not applicable.

- Decomposition temperature: Not determined.

- Self-inflammability: Product is not selfigniting.

- Explosive properties: Product is not explosive.

##### - Critical values for explosion:

Lower: Not determined.

Upper: Not determined.

- Vapour pressure: Not determined.

- Density at 20 °C 2.071 g/cm<sup>3</sup>

- Relative density Not determined.

- Vapour density Not determined.

- Evaporation rate Not determined.

##### - Solubility in / Miscibility with

Water: Soluble

- Partition coefficient: n-octanol/water: Not determined.

##### - Viscosity:

dynamic: Not determined.

kinematic: Not determined.

Organic solvents: 0.1 %

- 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.

#### - 10.2 Chemical stability

##### - Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known

- 10.4 Conditions to avoid No further relevant information available.

- 10.5 Incompatible materials: No further relevant information available.

- 10.6 Hazardous decomposition products: No dangerous decomposition products known

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### SECTION 11: Toxicological information

#### - 11.1 Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.

#### - LD/LC50 values that are relevant for classification:

##### 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | >15,000 mg/kg (Rat) |
| Dermal | LD50 | 23,000 mg/kg (RAB)  |

##### 8007-24-7 decarboxylating cashew nut shell liquid

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 500 mg/kg (mouse)    |
| Dermal | LD50 | >2,000 mg/kg (mouse) |

#### - Primary irritant effect:

#### - Skin corrosion/irritation

Causes skin irritation.

#### - Serious eye damage/irritation

Causes serious eye irritation.

#### - Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### - 12.1 Toxicity

#### - Aquatic toxicity:

##### 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

|           |                                   |
|-----------|-----------------------------------|
| CL50 96h  | 2 mg/L (Fish)                     |
| CE50 48h  | 1.8 mg/L (Daphnia)                |
| CEr50 96h | 11 mg/L (Alghe/piante acquatiche) |

##### 8007-24-7 decarboxylating cashew nut shell liquid

|          |                                      |
|----------|--------------------------------------|
| EC50 72h | 1,300 mg/L (Alghe/piante acquatiche) |
|----------|--------------------------------------|

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

#### - Ecotoxicological effects:

- **Remark:** Harmful to fish

#### - General notes:

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

Harmful to aquatic organisms

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

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

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H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

- **Department issuing data specification sheet:** SCP

- **Contact:** Dr. B. Brina c/o Kerakoll S.p.A. tel. +39-0536-816511 fax +39-0536-816581

- **Others regulations**

The safety data sheet has been drawn up in accordance with European directives 1999/45/EC, 2001/58/EC, 2001/59/EC and 2001/60/EC.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- \* **Data compared to the previous version altered.**

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

- **1.1 Product identifier**
- **Trade name:** ***BIOGEL EXTREME PARTE B***
- **Article number:** 08228.010.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the preparation:** Quenchant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KERAKOLL Pty Ltd.  
88 Sutton Street, North Melbourne VIC 3051  
Tel. +613 9448 8588  
sales@kerakoll.com.au
- **E-mail address of the competent person responsible for the SDS:** safety@kerakoll.com
- **Informing department:** Product safety department
- **1.4 Emergency telephone number:**  
+61 3 9448 8588 (Kerakoll AU)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Skin Corr. 1B      H314 Causes severe skin burns and eye damage.  
 Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

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



GHS07

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

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS07 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
polyethylenepolyamines  
2,4,6-tris(dimethylaminomethyl)phenol

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**- Hazard statements**

- H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H411 Toxic to aquatic life with long lasting effects.

**- Precautionary statements**

- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P321 Specific treatment (see on this label).  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- 2.3 Other hazards****- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.  
 - **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**- 3.2 Mixtures**

- **Description:** Mixture consisting of the following components.

**- Dangerous components:**

|  |   |          |
|--|---|----------|
| CAS: 68131-73-7<br>EINECS: 268-626-9<br>Index number: 612-121-00-1<br>Reg.nr.: 01-2119485823-28-xxxx | polyethylenepolyamines<br>Consisting of: 4067-16-7 3,6,9,12-tetra-<br>azatetradecamethylenediamine (20-55%); 112-57-2<br>3,6,9-triazaundecamethylenediamine (5-20%); 112-<br>24-3 3,6-diazaoctanethylenediamin (<2%)<br>Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic<br>Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4,<br>H312; Skin Sens. 1, H317 | 10-19.9% |
| CAS: 90-72-2<br>EINECS: 202-013-9<br>Reg.nr.: 01-2119560597-27                                       | 2,4,6-tris(dimethylaminomethyl)phenol<br>Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens.<br>1, H317   | ≥3-<4.9% |

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**- 4.1 Description of first aid measures**

- **General information** Instantly remove any clothing soiled by the product.  
 - **After inhalation** In case of unconsciousness bring patient into stable side position for transport.  
 - **After skin contact** Instantly wash with water and soap and rinse thoroughly.  
 - **After eye contact**  
 Rinse opened eye for several minutes under running water. Then consult doctor.  
 - **After swallowing** Drink copious amounts of water and provide fresh air. Instantly call for doctor.

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

No further relevant information available.

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

No further relevant information available.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of poisonous gases during heating or in fires.
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Put on breathing apparatus.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case product reaches water or sewage system.  
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep breathing equipment ready.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.  
Do not inhale gases / fumes / aerosols.

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- Avoid contact with the eyes.  
 Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
  - **Protection of hands:** Protective gloves.
  - **Material of gloves**  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
  - **Eye protection:** Tightly sealed safety glasses.

### SECTION 9: Physical and chemical properties

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

##### - General Information

- |                           |                 |
|---------------------------|-----------------|
| - <b>Appearance:</b>      | Fluid           |
| - <b>Form:</b>            | Pasty           |
| - <b>Colour:</b>          | White           |
| - <b>Odour:</b>           | Amine-like      |
| - <b>Odour threshold:</b> | Not determined. |

- |                    |                 |
|--------------------|-----------------|
| - <b>pH-value:</b> | Not determined. |
|--------------------|-----------------|

##### - Change in condition

- |   |                |
|---|----------------|
| - <b>Melting point/freezing point:</b>            | Not determined |
| - <b>Initial boiling point and boiling range:</b> | >250 °C        |

- |                       |        |
|-----------------------|--------|
| - <b>Flash point:</b> | 148 °C |
|-----------------------|--------|

- |  |                 |
|--|-----------------|
| - <b>Inflammability (solid, gaseous)</b> | Not applicable. |
|--|-----------------|

- |                                     |                 |
|-------------------------------------|-----------------|
| - <b>Decomposition temperature:</b> | Not determined. |
|-------------------------------------|-----------------|

- |                               |                              |
|-------------------------------|------------------------------|
| - <b>Self-inflammability:</b> | Product is not selfigniting. |
|-------------------------------|------------------------------|

- |                                |                           |
|--------------------------------|---------------------------|
| - <b>Explosive properties:</b> | Product is not explosive. |
|--------------------------------|---------------------------|

##### - Critical values for explosion:

- |                 |                 |
|-----------------|-----------------|
| - <b>Lower:</b> | Not determined. |
| - <b>Upper:</b> | Not determined. |

- |                           |                 |
|---------------------------|-----------------|
| - <b>Vapour pressure:</b> | Not determined. |
|---------------------------|-----------------|

- |                           |                       |
|---------------------------|-----------------------|
| - <b>Density at 20 °C</b> | 1.6 g/cm <sup>3</sup> |
|---------------------------|-----------------------|

- |                           |                 |
|---------------------------|-----------------|
| - <b>Relative density</b> | Not determined. |
|---------------------------|-----------------|

- |                         |                 |
|-------------------------|-----------------|
| - <b>Vapour density</b> | Not determined. |
|-------------------------|-----------------|

- |                           |                 |
|---------------------------|-----------------|
| - <b>Evaporation rate</b> | Not determined. |
|---------------------------|-----------------|

##### - Solubility in / Miscibility with

- |                 |         |
|-----------------|---------|
| - <b>Water:</b> | Soluble |
|-----------------|---------|

- |  |                 |
|--|-----------------|
| - <b>Partition coefficient: n-octanol/water:</b> | Not determined. |
|--|-----------------|

##### - Viscosity:

- |                     |                 |
|---------------------|-----------------|
| - <b>dynamic:</b>   | Not determined. |
| - <b>kinematic:</b> | Not determined. |

- |                                |  |
|--------------------------------|--|
| - <b>9.2 Other information</b> | No further relevant information available. |
|--------------------------------|--|

### SECTION 10: Stability and reactivity

- |                          |  |
|--------------------------|--|
| - <b>10.1 Reactivity</b> | No further relevant information available. |
|--------------------------|--|

#### - 10.2 Chemical stability

- |  |   |
|--|---|
| - <b>Thermal decomposition / conditions to be avoided:</b> | No decomposition if used according to specifications. |
|--|---|

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- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### - LD/LC50 values that are relevant for classification:

##### ATE (Acute Toxicity Estimates)

|            |          |                   |
|------------|----------|-------------------|
| Oral       | LD50     | 9,085 mg/kg       |
| Dermal     | LD50     | 7,758 mg/kg       |
| Inhalative | LC50/4 h | >253 mg/l (mouse) |

##### 68131-73-7 polyethylenepolyamines

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 1,716.2 mg/kg (Rat) |
| Dermal | LD50 | 1,465.4 mg/kg (RAB) |

##### 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

|      |      |                     |
|------|------|---------------------|
| Oral | LD50 | 2,169 mg/kg (mouse) |
|------|------|---------------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **General notes:**  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even extremely small quantities leak into soil.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

|      |             |
|------|-------------|
| HP8  | Corrosive   |
| HP13 | Sensitising |
| HP14 | Ecotoxic    |

- **Uncleaned packagings:**- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**- **ADR, IMDG, IATA**

UN2735

- **14.2 UN proper shipping name**- **ADR**UN2735 AMINES, LIQUID, CORROSIVE, N.O.S.  
(polyethylenepolyamines), ENVIRONMENTALLY  
HAZARDOUS- **IMDG**AMINES, LIQUID, CORROSIVE, N.O.S.  
(polyethylenepolyamines), MARINE POLLUTANT- **IATA**AMINES, LIQUID, CORROSIVE, N.O.S.  
(polyethylenepolyamines)- **14.3 Transport hazard class(es)**- **ADR, IMDG**- **Class**

8 Corrosive substances.

- **Label**

8

- **IATA**- **Class**

8 Corrosive substances.

- **Label**

8

- **14.4 Packing group**- **ADR, IMDG, IATA**

III

- **14.5 Environmental hazards:**Product contains environmentally hazardous  
substances: polyethylenepolyamines- **Marine pollutant:**

Symbol (fish and tree)

- **Special marking (ADR):**

Symbol (fish and tree)

- **14.6 Special precautions for user**

Warning: Corrosive substances.

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|                      |                                       |
|----------------------|---------------------------------------|
| - Kemler Number:     | 80                                    |
| - EMS Number:        | F-A,S-B                               |
| - Segregation groups | Alkalis                               |
| - Stowage Category   | A                                     |
| - Segregation Code   | SG35 Stow "separated from" SGG1-acids |

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code      Not applicable.

- Transport/Additional information:

- ADR

- Limited quantities (LQ)      5L

- Excepted quantities (EQ)      Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- Transport category      3

- Tunnel restriction code      E

- IMDG

- Limited quantities (LQ)      5L

- Excepted quantities (EQ)      Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- UN "Model Regulation":      UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHYLENEPOLYAMINES), 8, III, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

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

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- Seveso category E2 Hazardous to the Aquatic Environment

- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- National regulations

The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.

- Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing data specification sheet:** SCP

- **Contact:** Dr. B. Brina c/o Kerakoll S.p.A. tel. +39-0536-816511 fax +39-0536-816581

- **Others regulations**

The safety data sheet has been drawn up in accordance with European directives 1999/45/EC, 2001/58/EC, 2001/59/EC and 2001/60/EC.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- \* **Data compared to the previous version altered.**

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