1 Identification of substance:

- **Product details:**
  - **Trade name:** EPIKOTE™ Resin 05395 RAL 8016
  - **Article number:** 16-0285500/1
  - **Application of the substance / the preparation** Epoxy resin systems

- **Manufacturer/Supplier:**
  Hexion Specialty Chemicals B.V.
  Postbus 606
  3190 AN Hoogvliet Rt.
  Netherlands
  Tel.: +31 65 25 11 07 9

- **Information:**
  see: Section 16 (Contact)
  E-Mail: ulrich.busch@hexion.com

- **Emergency information:**
  Emergency telephone number:
  CARECHEM24
  +44 (0) 2087 628322

2 Hazards identification

- **Hazard designation:**
  Xi Irritant
  N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment**
  R 36/38 Irritating to eyes and skin.
  R 43 May cause sensitisation by skin contact.
  R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  Contains epoxy constituents. See information supplied by the manufacturer.

3 Composition/information on ingredients

- **Chemical characterization:**
- **Identification number(s):**
  - **EINECS Number:** Not applicable (preparation)
- **Chemical characterization**
  - **Description:** Modified epoxy resin

- **Dangerous components:**

| CAS: 9003-36-5 | Bisphenol F-epichlorohydrin resin, mw ≤ 700 | > 50% |
| NLP: 500-006-8 | Xi, N; R 36/38-43-51/53 |       |
| CAS: 25068-38-6 | Bisphenol A-epichlorohydrin resin, mw ≤ 700 | 25-50% |
| NLP: 500-033-5 | Xi, N; R 36/38-43-51/53 |       |
| CAS: 25322-69-4 | Polypropylene glycol |       |
| NLP: 500-039-8 | Xn; R 22 |       |

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

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation**
  Supply fresh air and call for doctor for safety reasons.
  In case of unconsciousness bring patient into stable side position for transport.

(Contd. on page 2)
5 Fire fighting measures

• Suitable extinguishing agents
  CO2, extinguishing powder or water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

• For safety reasons unsuitable extinguishing agents
  Water with a full water jet.

• Special hazards caused by the material, its products of combustion or resulting gases:
  Carbon monoxide (CO)
  Under certain fire conditions, traces of other toxic gases cannot be excluded.

• Protective equipment:
  Wear full protective suit.
  Wear self-contained breathing apparatus.

• Additional information
  Collect contaminated fire fighting water separately. It must not enter drains.
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

• Person-related safety precautions:
  Wear protective equipment. Keep unprotected persons away.

• Measures for environmental protection:
  Do not allow product to reach sewage system or water bodies.
  Do not allow to enter the ground/soil.

• Measures for cleaning/collection:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose of contaminated material as waste according to item 13.

7 Handling and storage

• Handling
  Information for safe handling:
  Ensure good ventilation/exhaustion at the workplace.

• Information about protection against explosions and fires:
  No special measures required.

• Storage
  Requirements to be met by storerooms and containers:
  Prevent any penetration into the ground.

• Information about storage in one common storage facility:
  Not required.

• Further information about storage conditions:
  Store in cool, dry conditions in well sealed containers.
8 Exposure controls and personal protection

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

- 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.
  Avoid contact with the eyes and skin.
  Do not inhale gases / fumes / aerosols.
- Breathing equipment: Not necessary if room is well-ventilated.
- Protection of hands: Plastic gloves (EN 374)
- Material of gloves
  Butyl rubber, BR
  Nitrile rubber, NBR
- Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Tightly sealed safety glasses (EN 166).
- Body protection: Protective work clothing (EN 340).

9 Physical and chemical properties:

- General Information
  Form: Fluid
  Colour: Brown
  Odour: Weak, characteristic
- Change in condition
  Melting point/Melting range: -
- Flash point: > 150°C (ISO 2719)
- Density at 20°C: 1.16 - 1.20 g/cm3 (DIN 53217)
- Solubility in / Miscibility with
  Water: Not miscible or difficult to mix
- Viscosity:
  Dynamic at 25°C: 2600 - 3200 mPa*s (ISO 9371)

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- Dangerous reactions
  May produce violent reactions with bases and numerous organic substances including alcohols and amines
  Exothermic polymerisation
- Dangerous products of decomposition: Irritant gases/vapours

11 Toxicological information

- Acute toxicity:

<table>
<thead>
<tr>
<th>LD/LC50 values that are relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5 Bisphenol F-epichlorohydrin resin, mw ≤ 700</td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
</tbody>
</table>
**Trade name:** EPIKOTE™ Resin 05395 RAL 8016

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**25068-38-6 Bisphenol A–epichlorohydrin resin, mw ≤ 700**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>11400 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt; 2000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Irritant effect.
  - Sensitization: Sensitization possible by skin contact.

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**12 Ecological information:**

- Ecotoxicological effects:
- Acquatic toxicity:
  - **Type of test Effective concentration Method Assessment**
    Rainbow trout LC 50 (96h) 1.5 – 7.7 mg/l
    Daphnia magna EC 50 (24h) 1.1 – 3.6 mg/l
    Green algae EC 50 (96 h) 220 mg/l
    (bisphenol-A-epichlorohydrin resin MG ≤ 700)
- General notes:
  - Do not allow product to reach underground or surface water or sewage system.

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**13 Disposal considerations**

- **Product:**
- **Recommendation**
  Remove according to local authority recommendations, e.g. convey to a suitable incinerator.
- **European waste catalogue**
  The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

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**14 Transport information**

- **Land transport ADR/RID (cross-border)**
- **ADR/RID Class:** 9 Miscellaneous dangerous substances and articles.
- **Hazard Index Number:** 90
- **Substance Index Number:** 3082
- **Packaging group:** III
- **Label:** 9
- **Designation of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)

- **Maritime transport IMDG:**
  - **IMDG Class:** 9
  - **UN Number:** 3082
  - **Label:** 9 + MP
  - **Packaging group:** III
  - **EMS Number:** F-A,S-F
  - **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide derivatives)

- **Air transport ICAO-TI and IATA-DGR:**
  - **ICAO/IATA Class:** 9
  - **UN/ID Number:** 3082
  - **Label:** 9

(Contd. on page 5)
## 15 Regulatory information

- **Designation according to EC guidelines:**
  The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**
  Xi Irritant
  N Dangerous for the environment

- **Hazard-determining components of labelling:**
  Bisphenol F-epichlorohydrin resin, $\text{mw} \leq 700$
  Bisphenol A-epichlorohydrin resin, $\text{mw} \leq 700$

- **Risk phrases:**
  36/38 Irritating to eyes and skin.
  43 May cause sensitisation by skin contact.
  51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**
  24 Avoid contact with skin.
  28 After contact with skin, wash immediately with plenty of soap and water.
  37/39 Wear suitable gloves and eye/face protection.
  60 This material and its container must be disposed of as hazardous waste.
  61 Avoid release to the environment. Refer to special instructions/safety data sheets.

- **Special designation of certain preparations:**
  Contains epoxy constituents. See information supplied by the manufacturer.

## 16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
  These R-phrases refer to section 3: "Dangerous Components"
  22 Harmful if swallowed.
  36/38 Irritating to eyes and skin.
  43 May cause sensitisation by skin contact.
  51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing data specification sheet:** Product Safety Department

- **Contact:**
  Product Safety Department
  Tel.: **49/203/4296-206