1 Identification of substance:

- **Product details:**
  - **Trade name:** EPIKOTE™ Resin 845
  - **Article number:** 16-0252800/3
  - **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.**

- **Additional information:**
  - The residue of epichlorohydrin corresponds to the recommendations of PlasticsEurope (ERC):
  - Epoxy resins < 5 ppm (0,0005 %)

3 Composition/information on ingredients

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

- **Dangerous components:**

<table>
<thead>
<tr>
<th>CAS: 9003-36-5</th>
<th>Bisphenol F-epichlorohydrin resin, mw ≤ 700</th>
<th>&gt; 50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLP: 500-006-8</td>
<td>Xi, N; R 36/38-43/51/53</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 25068-38-6</th>
<th>Bisphenol A-epichlorohydrin resin, mw ≤ 700</th>
<th>25-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLP: 500-033-5</td>
<td>Xi, N; R 36/38-43/51/53</td>
<td></td>
</tr>
</tbody>
</table>

- **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. (Contd. on page 2)
Trade name: EPIKOTE™ Resin 845

• **After inhalation**
  Supply fresh air and call for doctor for safety reasons.
  In case of unconsciousness bring patient into stable side position for transport.

• **After skin contact**
  Instantly wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.

• **After eye contact**
  Rinse opened eye for several minutes under running water.
  Seek immediate medical advice.

• **After swallowing**
  Rinse out mouth and then drink plenty of water.
  Seek medical treatment.

### 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:**
  Can be released in case of fire
  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.
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.
- 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: Cloudy
  Yellow
  Odour: Characteristic
- Change in condition
  Melting point/Melting range: -
- Flash point: > 200°C (ISO 2719)
- Vapour pressure at 20°C: < 0.1 hPa
- Density at 20°C: 1.16 - 1.19 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:
  - LD/LC50 values that are relevant for classification:
    - 9003-36-5 Bisphenol F-epichlorohydrin resin, mw \( \leq 700 \)
      - Oral LD50 23800 mg/kg (rat)
      - Dermal LD50 > 2000 mg/kg (rabbit)
    - 25068-38-6 Bisphenol A-epichlorohydrin resin, mw \( \leq 700 \)
      - Oral LD50 11400 mg/kg (rat)
      - Dermal LD50 > 2000 mg/kg (rabbit)

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

12 Ecological information:

- General notes:
  Do not allow product to reach underground or surface water or sewage system.

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.

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
  - Marine pollutant: yes
  - Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)
Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 08.04.2008 Revision: 02.04.2008

Trade name: EPIKOTE™ Resin 845

(Contd. of page 4)

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, mw \(\leq 700\)
Bisphenol A-epichlorohydrin resin, 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.

• National regulations

• Other regulations, limitations and prohibitive regulations
Document of PlasticsEurope (ERC): "Epoxy resins and curing agents (Toxicology, Health, Safety and Environmental Aspects)"

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"
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
• * Data compared to the previous version altered.