

**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 NLP: 500-006-8	Bisphenol F-epichlorohydrin resin, mw ≤ 700 Xi, N; R 36/38-43-51/53	> 50%
CAS: 25068-38-6 NLP: 500-033-5	Bisphenol A-epichlorohydrin resin, mw ≤ 700 Xi, N; R 36/38-43-51/53	25-50%
CAS: 25322-69-4 NLP: 500-039-8	Polypropylene glycol Xn; R 22	< 10%

- **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.

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- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Flush open eye under running water continuously for at least 15 minutes.  
Seek medical treatment.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Call a doctor immediately.

**5 Fire fighting measures**

- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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/collecting:**  
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.

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**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**

<b>Form:</b>	Fluid
<b>Colour:</b>	Brown
<b>Odour:</b>	Weak, characteristic
- **Change in condition**

<b>Melting point/Melting range:</b>	-
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- **Flash point:** > 150°C (ISO 2719)
- **Density at 20°C** 1.16 - 1.20 g/cm<sup>3</sup> (DIN 53217)
- **Solubility in / Miscibility with**

<b>Water:</b>	Not miscible or difficult to mix
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- **Viscosity:**

<b>dynamic at 25°C:</b>	2600 - 3200 mPa*s (ISO 9371)
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**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 ≤ 700

Oral	LD50	23800 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)

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

- **Ecotoxicological effects:**
  - **Aquatic 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.

**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
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxyde derivatives)
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label** 9

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- **Packaging group:** III
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Epoxide derivatives)
- **Transport/Additional information:**  
No dangerous good according to international transport regulations.

**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 ≤ 700  
Bisphenol A-epichlorohydrin resin, mw ≤ 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"  
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