

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:**

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%

- **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.

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- **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/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.

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- **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.
- **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:	-
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- **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
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- **Viscosity:**

dynamic at 25°C:	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

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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)

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:• **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)

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

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"
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.**