

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 04.02.2009

Revision: 04.02.2009

1 Identification of substance

- **Product details**
- Trade name **Epoxy CR Color, Component A**
- **Article number:** 6160-79
- **Application of the substance / the preparation** Coating
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
Postfach 1255
D-49624 Lönningen / Germany
Tel.: 05432/83-0
Fax: 05432/3985
- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
E-Mail: sales@remmers.co.uk
- **Emergency information:**
during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
Far East: Tel.: +65(0) 67410277
Head Office Germany: Tel.: +49 (0)5432 83 185
after working hours: Tel.: +49 (0)171/6428-297

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.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- **Additional information:**
The residual content of epichlorhydrin corresponds to APME recommendations: modified resins < 10 ppm (0.001%)

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Epoxide resin, with fillers and pigments

- **Dangerous components:**

CAS: 9003-36-5	bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700) Xi, N; R 36/38-43-51/53	5-10%
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Trade name Epoxy CR Color, Component A

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CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi, N; R 36/38-43-51/53	5-10%
CAS: 16096-31-4 EINECS: 240-260-4	hexandiol diglycidylether Xi; R 36/38-43-52/53	5-10%

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

4 First aid measures

· General information

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

Immediately 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.

· After skin contact

Wash immediately 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 immediate medical advice.

· Information for doctor

· Treatment symptomatic treatment

5 Fire fighting measures

· Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water 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 flue gases:

May be released in case of fire

Carbon monoxide (CO)

Carbon dioxide

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen chloride (HCl)

· 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.

Ensure adequate ventilation

· Measures for environmental protection:

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

Do not allow to enter the ground/soil.

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Trade name **Epoxy CR Color, Component A**

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- **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.

Ensure adequate ventilation.

7 Handling and storage

- **Handling**

- **Information for safe handling:**

Use only in well ventilated areas.

Open and handle container with care.

- **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 on storage in a common storage facility:**

Suitable material for containers and pipes: Light metals and their alloys.

- **Further information about storage conditions:**

Store cool and dry in tightly closed containers.

Protect from heat and direct sunlight.

Protect from frost.

8 Exposure controls and personal protection

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

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

The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.

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

- **Personal protective equipment**

- **General protective and hygienic measures**

Immediately remove soiled, saturated clothing.

Store protective clothing separately.

Keep away from food, beverages and animal feed.

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

Do not inhale gases / vapours / aerosols.

- **Respiratory equipment:**

In case of insufficient ventilation, use respiratory protection:

Filter A (brown)

Only use ambient air independent respiratory equipment in pits, shafts and silos!

- **Protection of hands:** Long cuffed gloves

- **Material of gloves:** Nitrile rubber, NBR

- **Penetration time of glove material**

Break through time: max. 240 min (DIN EN 374).

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.

- **Body protection:** Protective work clothing.

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Trade name **Epoxy CR Color, Component A**

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9 Physical and chemical properties:

· General Information

Form:	Viscous
Colour:	Different, according to dye
Odour:	Weak, characteristic

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

· Flash point:	> 100°C
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· Ignition temperature:	
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· Decomposition temperature:	> 200°C
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· Danger of explosion:	Product is not explosive.
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· Density at 20°C	ca. 2.1 g/cm ³
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· Solubility in / Miscibility with Water:	Insoluble
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· Viscosity:	
dynamic at 23°C:	ca. 11000 mPas

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.
No decomposition if handled and stored according to specifications.

· Dangerous reactions

May produce violent reactions with bases and numerous organic substances including alcohols and amines
Exothermic polymerisation

· **Dangerous decomposition products:** Irritating gases/vapours

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Oral	LD50	> 10000 mg/kg (Ratte)
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Dermal	LD50	> 2000 mg/kg (Ratte)
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16096-31-4 hexandiol diglycidylether

Oral	LD50	2900 mg/kg (Ratte)
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Dermal	LD50	> 4900 mg/kg (Ratte)
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· Primary irritant effect:

- **on the skin:** Irritates skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitisation:** Sensitisation possible by skin contact.
- **Sensitisation** May cause sensitisation by skin contact.

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Trade name Epoxy CR Color, Component A

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12 Ecological information:

- **General notes:**

Water hazard class 2 : hazardous to water.
according to appendix 4 VwVwS

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

13 Notes on disposal:

- **Product:**

- **Recommendation**

Not hardened material must be disposed of as hazardous waste according to official regulations. Hardened product remains may be disposed of as building rubble or put into household garbage.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27

- **Uncleaned packaging:**

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

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 9 (M6) Miscellaneous hazardous substances and articles.

- **Kemler Number:** 90

- **UN-Number:** 3082

- **Packaging group:** III

- **Danger sign:** 9

- **Designation of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))

- **Remarks:** TREM-card No.: 93

- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 9

- **UN Number:** 3082

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Trade name **Epoxy CR Color, Component A**

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- **Label** 9
- **Packaging group:** III
- **Marine pollutant:** mp
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))

- **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. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))

15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / 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-(epichlorhydrin); epoxy resin(number average molecular weight<700)
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
hexandiol diglycidylether

- **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:**

2 Keep out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

- **Special labelling of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.

- **Product Code:** RE 1
- **National regulations**

- **Ordinance on hazardous incidents (StfV):** Ordinance on hazardous incidents, appendix: not named

- **Water hazard class:**

German Water hazard class 2: hazardous to water.
according to appendix 4 VwVwS

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- **Other regulations, limitations and prohibition ordinances**
APME document: "Epoxy resins and hardener: Toxicology, working safety, environment."
- **Professional Association (BG) Code of Practice:**
BGR 227 - "Epoxy Resins"
M 004 "Irritating substances/corrosive substances"

16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

- **Relevant R-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.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Department issuing data specification sheet:** Product Safety department

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1 Identification of substance

- **Product details**
- **Trade name** Epoxy CR Color, Comonent B
- **Article number:** 6160-79
- **Application of the substance / the preparation** Coating
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
Postfach 1255
D-49624 Lönningen / Germany
Tel.: 05432/83-0
Fax: 05432/3985
- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
E-Mail: sales@remmers.co.uk
- **Emergency information:**
during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
Far East: Tel.: +65(0) 67410277
Head Office Germany: Tel.: +49 (0)5432 83 185
after working hours: Tel.: +49 (0)171/6428-297

2 Hazards identification

- **Hazard designation:**



C Corrosive
N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment**
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 34 Causes burns.
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.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Epoxide resin hardener

- **Dangerous components:**

CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol Xn; R 20/22	20-40%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine C, Xn; R 21/22-34-43-52/53	20-40%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) C, Xn; R 22-34	20-40%

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CAS: 98-54-4 EINECS: 202-679-0	4-tert-butylphenol Xn, Xi; R 36/37/38-42/43	2.5-5%
CAS: 25154-52-3 EINECS: 246-672-0	nonylphenol C, Xn, N; R 22-34-62-50/53-63	2.5-5%

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

4 First aid measures

· **General information**

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

Immediately remove any clothing soiled by the product.

Take affected persons out of danger area and instruct to lie down.

· **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**

Wash immediately with water and soap and rinse thoroughly.

Cover wound with a sterile dressing.

If skin irritation continues, consult a doctor.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

· **Information for doctor**

· **Treatment** symptomatic treatment

5 Fire fighting measures

· **Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water 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 flue gases:**

May be released in case of fire

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Ammonia

· **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.

Ensure adequate ventilation

· **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.

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Trade name Epoxy CR Color, Comonent B

Ensure adequate ventilation.

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7 Handling and storage

- **Handling**
- **Information for safe handling:**
Use only in well ventilated areas.
Open and handle container with care.
- **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.
Ventilate storage and work rooms sufficiently.
- **Information on storage in a common storage facility:**
Suitable material for containers and pipes: Light metals and their alloys.
- **Further information about storage conditions:**
Store cool and dry in tightly closed containers.
Protect from heat and direct sunlight.
Protect from frost.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Immediately remove soiled, saturated clothing.
Store protective clothing separately.
Keep away from food, beverages and animal feed.
Do not eat, drink or smoke while working.
Use skin protection cream for preventive skin protection.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.
Do not inhale gases / vapours / aerosols.
- **Respiratory equipment:**
Filter A (brown)
Only use ambient air independent respiratory equipment in pits, shafts and silos!
- **Protection of hands:** Long cuffed gloves
- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**
Break through time: max. 240 min (DIN EN 374).
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

Form: Fluid

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Colour:	Light yellow
Odour:	Amine-like
Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 200°C
Flash point:	> 100°C
Ignition temperature:	> 260°C
Decomposition temperature:	> 250°C
Danger of explosion:	Product is not explosive.
Vapour pressure at 20°C:	< 0.3 hPa
Density at 20°C	1.05 g/cm ³
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Viscosity:	
dynamic at 25°C:	ca. 400 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
No decomposition if handled and stored according to specifications.
- **Dangerous reactions** Strong exothermic reaction with acids
- **Dangerous decomposition products:**
Corrosive gases/vapours
ammonia

11 Toxicological information

- **Acute toxicity:**

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

100-51-6 Benzyl alcohol

Oral	LD50	1230 mg/kg (Ratte)
Dermal	LD50	2000 mg/kg (Kaninchen)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	1030 mg/kg (Ratte)
Dermal	LD50	ca. 2 mg/kg (Kaninchen)

1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	1040 mg/kg (Ratte)
Inhalative	LC50/4 h	2.4 mg/l (Ratte)

98-54-4 4-tert-butylphenol

Oral	LD50	2951 mg/kg (Ratte)
Dermal	LD50	2288 mg/kg (Kaninchen)

25154-52-3 nonylphenol

Oral	LD50	1900 mg/kg (Ratte)
Dermal	LD50	2140 mg/kg (Kaninchen)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.

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- **on the eye:** Caustic effect
- **Sensitisation:** Sensitisation possible by skin contact.
- **Additional toxicological information:**
Swallowing leads to a strong caustic effect in the mouth and throat and to the danger of perforation of oesophagus and stomach.
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

- **General notes:**
Water hazard class 2 : hazardous to water.
according to appendix 4 VwVwS
Do not allow product to reach ground water, bodies of water or sewage system.

13 Notes on disposal:

- **Product:**
- **Recommendation**
Not hardened material must be disposed of as hazardous waste according to official regulations. Hardened product remains may be disposed of as building rubble or put into household garbage.
The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27

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

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 8 (C7) Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** 2735
- **Packaging group:** III
- **Danger sign:** 8
- **Designation of goods:** 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

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Trade name Epoxy CR Color, Comonent B

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· **Remarks:** TREM-Card No. 83

· **Maritime transport IMDG/GGVSea:**



· **IMDG/GGVSea Class:** 8
 · **UN Number:** 2735
 · **Label** 8
 · **Packaging group:** III
 · **EMS Number:** F-A,S-B
 · **Marine pollutant:** -
 · **Correct technical name:** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 8
 · **UN/ID Number:** 2735
 · **Label** 8
 · **Packaging group:** III
 · **Correct technical name:** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**



C Corrosive
 N Dangerous for the environment

· **Hazard-determining components of labelling:**

3-aminomethyl-3,5,5-trimethylcyclohexylamine
 4-tert-butylphenol
 Benzyl alcohol

· **Risk phrases:**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 34 Causes burns.
 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:**

2 Keep out of the reach of children.
 23 Do not breathe fumes/aerosol.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 28 After contact with skin, wash immediately with plenty of soap and water.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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- **Product Code:** RE 1
- **National regulations**
- **Ordinance on hazardous incidents (StFV):** Ordinance on hazardous incidents, appendix: not named
- **Water hazard class:**
German Water hazard class 2: hazardous to water.
according to appendix 4 VwVwS
- **Other regulations, limitations and prohibition ordinances**
APME document: "Epoxy resins and hardener: Toxicology, working safety, environment."
- **Professional Association (BG) Code of Practice:**
BGR 227 - "Epoxy Resins"
M 004 "Irritating substances/corrosive substances"

16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.
Delivery specifications are found in the respective Technical Information Sheets.

- **Relevant R-phrases**
 - 20/22 Harmful by inhalation and if swallowed.
 - 21/22 Harmful in contact with skin and if swallowed.
 - 22 Harmful if swallowed.
 - 34 Causes burns.
 - 36/37/38 Irritating to eyes, respiratory system and skin.
 - 42/43 May cause sensitisation by inhalation and skin contact.
 - 43 May cause sensitisation by skin contact.
 - 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 62 Possible risk of impaired fertility.
 - 63 Possible risk of harm to the unborn child.
- **Department issuing data specification sheet:** Product Safety department

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