

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 31.03.2017

Version number 3

Revision: 31.03.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking*** 1.1 Product identifier***** Trade name FM ECC (Joint Mortar ECC)***** Article number:** 0350*** 1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

*** Application of the substance / the mixture** Sealing mortar*** 1.3 Details of the supplier of the safety data sheet***** Manufacturer/Supplier:**

Remmers GmbH
Postfach 1255
D-49624 Lönningen / Germany
Tel.: +49(0)5432/83-0
Fax: +49(0)5432/3985

Remmers (UK) Limited
Unit B1 The Fleming Centre
West Sussex RH10 9NN
fon +44 (0) 1293 594 010
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*** Informing department:**

Product Safety department: Tel.: Steve Dunn Tel.: +44 (0) 1293 594 010
E-Mail: sales@remmers.co.uk

*** 1.4 Emergency telephone number:**

during working hours:

U.K.: Tel.: +44 (0) 1293 594 010

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24h-Transport Emergency Contact Phone Number:

within USA and Canada: 1-800-424-9300

outside USA and Canada: 001-703-527-3887

SECTION 2: Hazards identification*** 2.1 Classification of the substance or mixture***** Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

*** 2.2 Label elements***** Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

*** Hazard pictograms**

GHS07

*** Signal word** Warning*** Hazard-determining components of labelling:**

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

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bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs

*** Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

*** Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Additional information:**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

*** 2.3 Other hazards**

The residual content of epichlorhydrin corresponds to APME recommendations: modified resins < 10 ppm (0.001%)

*** Results of PBT and vPvB assessment**

* **PBT:** Not applicable.

* **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

*** 3.2 Chemical characterisation: Mixtures**

* **Description:** Mixture of the substances listed below with harmless additions.

*** Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26-XXXX	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	5-10%
CAS: 28064-14-4 NLP: 500-006-8 Reg.nr.: 01-2119454392-40-XXXX	bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	1-2.5%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22-XXXX	oxirane, mono[(C12-14-alkyloxy)methyl] derivs Skin Irrit. 2, H315; Skin Sens. 1, H317	≤1.0%

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

SECTION 4: First aid measures

*** 4.1 Description of first aid measures**

*** 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**

If skin irritation continues, consult a doctor.
Wash immediately with water and soap and rinse thoroughly.

* **After eye contact** Seek immediate medical advice.

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*** After swallowing**

Rinse out mouth and then drink plenty of water.
Seek medical treatment.

*** 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

*** 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

*** 5.1 Extinguishing media**

*** Suitable extinguishing agents** Use fire fighting measures that suit the environment.

*** 5.2 Special hazards arising from the substance or mixture**

May be released in case of fire

Carbon monoxide (CO)

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

Hydrogen chloride (HCl)

*** 5.3 Advice for firefighters***** 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.

SECTION 6: Accidental release measures

*** 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

*** 6.2 Environmental precautions:**

Do not allow to enter the ground/soil.

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

Inform responsible authorities in case product reaches bodies of water or sewage system.

Dilute with plenty of water.

*** 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

*** 6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

*** 7.1 Precautions for safe handling** Use only in well ventilated areas.

*** 7.2 Conditions for safe storage, including any incompatibilities***** Storage**

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

*** Information on storage in a common storage facility:** none

*** Further information about storage conditions:**

Protect from frost.

Keep container tightly closed.

*** 7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

*** 8.1 Control parameters***** 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.

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- * **Additional information:** The lists that were valid during compilation were used as a basis.
- * **8.2 Exposure controls**
- * **Personal protective equipment**
- * **General protective and hygienic measures**
Do not eat, drink or smoke while working.
Use skin protection cream for preventive skin protection.
Keep away from food, beverages and animal feed.
Immediately remove soiled, saturated clothing.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.
- * **Respiratory equipment:** Not necessary if room is well-ventilated.
- * **Protection of hands:**
Long cuffed gloves
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- * **Material of gloves**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- * **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.

SECTION 9: Physical and chemical properties

- * **9.1 Information on basic physical and chemical properties**
- * **General Information**
- * **Appearance:**

Form:	Fluid
Colour:	White
- * **Odour:** Odourless
- * **Odour threshold:** Not determined.
- * **pH-value:** Not determined.
- * **Change in condition**

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	> 200 °C
- * **Flash point:** > 105 °C
- * **Inflammability (solid, gaseous)** Not applicable.
- * **Ignition temperature:** not applicable
- * **Decomposition temperature:** Not determined.
- * **Self-inflammability:** Product is not self-igniting.
- * **Explosive properties:** Product is not explosive.
- * **Explosive Limits:**

Lower:	Not determined.
Upper:	Not determined.
- * **Vapour pressure:** Not determined.

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* Density at 20 °C	ca. 1.01 g/cm ³
* Relative density	Not determined.
* Vapour density	Not determined.
* Evaporation rate	Not determined.
* Solubility in / Miscibility with Water:	miscible
* Distribution coefficient (n-octanol/water):	Not determined.
* Viscosity:	
dynamic at 20 °C:	ca. 500 mPas
kinematic:	Not determined.
* Solvent separation test	< 3 %
* 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- * **10.1 Reactivity** No further relevant information available.
- * **10.2 Chemical stability**
- * **Thermal decomposition / conditions to be avoided:**
No decomposition if handled and stored according to specifications.
- * **10.3 Possibility of hazardous reactions**
May produce violent reactions with bases and numerous organic substances including alcohols and amines
Exothermic polymerisation
- * **10.4 Conditions to avoid** No further relevant information available.
- * **10.5 Incompatible materials:** No further relevant information available.
- * **10.6 Hazardous decomposition products:** Irritating gases/vapours

SECTION 11: Toxicological information

- * **11.1 Information on toxicological effects**
- * **Acute toxicity:** Based on available data, the classification criteria are not met.
- * **LD/LC50 values that are relevant for classification:**

CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
 Oral LD50 > 10000 mg/kg (rat)
 Dermal LD50 > 2000 mg/kg (rat)
- * **Primary irritant effect:**
- * **Skin corrosion/irritation**
Causes skin irritation.
- * **Serious eye damage/irritation**
Causes serious eye irritation.
- * **Sensitisation:**
May cause an allergic skin reaction.
- * **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- * **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- * **Carcinogenicity** Based on available data, the classification criteria are not met.
- * **Reproductive toxicity** Based on available data, the classification criteria are not met.
- * **STOT-single exposure** Based on available data, the classification criteria are not met.
- * **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- * **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- * **12.1 Toxicity**
- * **Aquatic toxicity:** No further relevant information available.
- * **12.2 Persistence and degradability** No further relevant information available.

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- * **12.3 Bioaccumulative potential** No further relevant information available.
- * **12.4 Mobility in soil** No further relevant information available.
- * **Ecotoxicological effects:**
- * **Remark:** Harmful to fish
- * **Additional ecological information:**
- * **General notes:**
Do not allow product to reach ground water, bodies of water or sewage system.
Hazardous to drinking water even if small quantities leak into soil.
Harmful to aquatic organisms
- * **12.5 Results of PBT and vPvB assessment**
- * **PBT:** Not applicable.
- * **vPvB:** Not applicable.
- * **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- * **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**
17 01 01 concrete
- * **Uncleaned packaging:**
- * **Recommendation:** Disposal must be made according to official regulations.
- * **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- | | |
|--|--|
| * 14.1 UN-Number | |
| * ADR, ADN, IMDG, IATA | Void |
| * 14.2 UN proper shipping name | |
| * ADR, ADN, IMDG, IATA | Void |
| * 14.3 Transport hazard class(es) | |
| * ADR, ADN, IMDG, IATA | |
| * Class | Void |
| * 14.4 Packing group | |
| * ADR, IMDG, IATA | Void |
| * 14.5 Environmental hazards: | |
| * Marine pollutant: | No |
| * 14.6 Special precautions for user | Not applicable. |
| * 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| * Transport/Additional information: | Not a hazardous good according to the above regulations. |
| * UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- * **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- * **Directive 2012/18/EU**
- * **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- * **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- * **National regulations**
- * **Other regulations, limitations and prohibition ordinances**
APME document: "Epoxy resins and curing agents: Toxicology, working safety, environment."

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* **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Delivery specifications are found in the respective Technical Information Sheets.

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.

*** Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

* **Department issuing data specification sheet:** Product Safety department / EHS

*** Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3