

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2007

Revision: 05.12.2006

1 Identification of substance

- **Product details**
- **Trade name** Epoxy Flex Fill, Component A
Acolan FlexFill, Component A
- **Article number:** 6275
- **Application of the substance / the preparation** Knife filler/ Surfacer
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
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D-49624 Lönigen / Germany
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Fax: 05432/3985
- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
E-Mail: sales@remmers.co.uk
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U.K.: Tel.: +44 (0) 845 373 0103
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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.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Resin mixture with colouring agents.

- **Dangerous components:**

CAS: 9003-36-5	bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700) Xi, N; R 36/38-43-51/53	10-30%
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	10-30%

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CAS: 68609-97-2	Glycidylether of a C12/C14 alcohol mixture	5-25%
EINECS: 271-846-8	Xi; R 38-43	

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

4 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** Remove product mechanically; wash thoroughly with plenty of soap and water.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** Drink plenty of water and provide fresh air. Call a doctor immediately.
- **Information for doctor**
- **Treatment** symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Do not allow to enter sewage system, surface or ground water.
Inform responsible authorities in case product reaches bodies of water or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information on storage in a common storage facility:**
Suitable material for containers and pipes: Light metals and their alloys.
- **Further information about storage conditions:** Keep container tightly closed.

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**
Keep away from food, beverages and animal feed.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.

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- Immediately remove soiled, saturated clothing.
- **Respiratory equipment:**
In case vapours/aerosols develop:
Filter A (brown)
Only use ambient air independent respiratory equipment in pits, shafts and silos!
 - **Protection of hands:** Protective gloves.
 - **Material of gloves** Nitrile rubber, NBR
 - **Penetration time of glove material**
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:	Pasty
Colour:	According to product specification
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	201°C

· **Flash point:** > 150°C

· **Self-inflammability:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive.

· **Density at 20°C** 2.01 g/cm³

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· Viscosity:

dynamic at 20°C: 2500 mPas

· Solvent content:

Organic solvents: 0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous decomposition products:** No dangerous decomposition products known

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)
Dermal	LD50	> 2000 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.
- **Additional toxicological information:**
The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

- **Ecotoxicological effects:**
- **Acquatic toxicity:**
- **Type of test Effective concentration Method Assessment**
Data for bisphenol A-epichlorhydrin resin (molecular weight < 700):
Acute toxicity to fish: 1 < LC/EC/IC-50 < 10 mg/l, toxic
Acute toxicity : 1 < LC/EC/IC-50 < 10 mg/l, toxic
(invertebrates)
Acute toxicity (alga): 1 < LC/EC/IC-50 < 10 mg/l, toxic
- **General notes:**
Water hazard class 2 : hazardous to water.
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.
Also toxic for fish and plankton in bodies of water.
according to appendix 4 VwVwS

13 Notes on disposal:

- **Product:**
- **Recommendation**
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.

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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. (Epoxy derivates MG < 700)
- **Limited quantities (LQ)** LQ7
- **Tunnel restriction code** E
- **Remarks:** TREM-Card No.93

· Maritime transport IMDG/GGVSea:



- **IMDG/GGVSea Class:** 9
- **UN Number:** 3082
- **Label** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy derivates MG < 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. (Epoxy derivates MG < 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)

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Glycidylether of a C12/C14 alcohol mixture

- **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.

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

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**

- **Water hazard class:**

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**

36/38 Irritating to eyes and skin.

38 Irritating to 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