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Material Safety Data Sheet

According to 91/155 EEC

Printing date 18.01.2007

Reviewed on 14.12.2006

1 Identification of substance			
· Product details			
· Trade name Epoxy Quick Fix, Resin Comp. A			
 Article number: 6272 Application of the substance / the preparation Coating 	g		
 Manufacturer/Supplier: Remmers Baustofftechnik GmbH Postfach 1255 D-49624 Löningen Tel.: 05432/83-0 Fax: 05432/3985 			
Informing department: Product Safety department: 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	Tel.: 05432/83-138/-538		

2 Composition/Data on components:

· Chemical characterization

· Description: Modified epoxide resin

· Dangerous components:

Dangerous components.		
NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi, N; R 36/38-43-51/53	80-<100%
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol Xn, Xi; R 20/22-43	5-<10%
Additional information For the wording of the listed risk phrases refer to section 16.		

3 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.

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4 First aid measures

General information

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest, provide artificial respiration.

After inhalation

Use a respiration bag or breathing device.

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.
- · After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

5 Fire fighting measures

- Suitable extinguishing agents Water spray jet
- Carbon dioxide
- 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: Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Hydrogen chloride (HCI) further harmful conflagration gases and fumes

• **Protective equipment:** Wear self-contained breathing apparatus.

· Additional information

Cool endangered containers with water spray jet.

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. Keep away from ignition sources

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. 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: Keep ignition sources away - Do not smoke.

Protect from heat.

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(Contd. of page 2) · Storage • **Requirements to be met by storerooms and containers:** Prevent any penetration into the ground. · Information on storage in a common storage facility: Store away from oxidizing agents. Store away from food. · Further information about storage conditions: Store cool and dry in tightly closed containers. Store container in a well ventilated position. Protect from frost. Protect from heat and direct sunlight. · Storage class class 10: flammable materials; VCI concept 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 guantities 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 The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eve protection: Tightly sealed safety glasses. · Body protection: Protective work clothing. 9 Physical and chemical properties:

General Information		
Form:	Fluid	
Colour:	clear	
Odour:	Weak, characteristic	
Change in condition Melting point/Melting ra Boiling point/Boiling ra		
Flash point:	101°C	
Ignition temperature:	435°C	
		(Contd. on page

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	(Contd. of page 3)
· Decomposition temperature:	> 200°C
· Danger of explosion:	Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.
 Explosive Limits: Lower: Upper: 	1.3 Vol % 13.0 Vol %
· Density at 20°C	1.150 g/cm ³
 Solubility in / Miscibility with Water: 	Insoluble

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.

· Materials to be avoided: Strong acids, strong bases and strong oxidising agents.

Dangerous reactions Exothermic polymerisation

· Dangerous decomposition products:

None if used properly. None if stored properly.

May be released in fire:

Carbon monoxide and carbon dioxide

Hydrogen chloride (HCI)

Phenol

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)

100-51-6 Benzyl alcohol

Oral LD50 1230 mg/kg (Ratte)

Dermal LD50 2000 mg/kg (Kaninchen)

Primary irritant effect:

 \cdot on the skin: Irritates skin and mucous membranes.

· on the eye: Irritating effect.

 \cdot 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

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	ical information:
	ion on elimination (persistence and degradability): formation:
Other ini	Data for benzyl alcohol: 1)
Fliminatic	on from water:
Degradat	
Rating:	Easily degradable
Test meth	
	method: BSB determination
	cal effects:
	c toxicity:
	test Effective concentration Method Assessment
1 t t f .	Data applies to benzyl alcohol: Ac
toxicity fo	
Scenede	5 , , , , , , , , , , , , , , , , , , ,
	cus idus LC-50: 646 mg/l/48 h 2)
	les promelas LC-50: 460 mg/l/96 h 3)
	kicity for daphnia: Daphnia magna EC-50: 400 mg/l
	ur in sewage processing plants:
iype of t	test Effective concentration Method Assessment Data applies to benzyl alcohol:
	o bacteria :
	nonas putida EC-10 : ca. 658 mg/l 2)
Remark:	
	lies to benzyl alcohol:
	sludge bacteria in a spirometric degradation test (Ascomat) were not impaired at concentration
of 100 mg	
	formation:
	lies to benzyl alcohol:
	lished examinations
	J., HÄLKE, A. et al.: Deut. Gewässerkundl. Mitt. 27 (1983) 77-79
3) VERSO	J., HÄLKE, A. et al.: Deut. Gewässerkundl. Mitt. 27 (1983) 77-79 CHUEREN, K.: Handbook of Environmental Data on Organic Chemicals, 2d Edition (19
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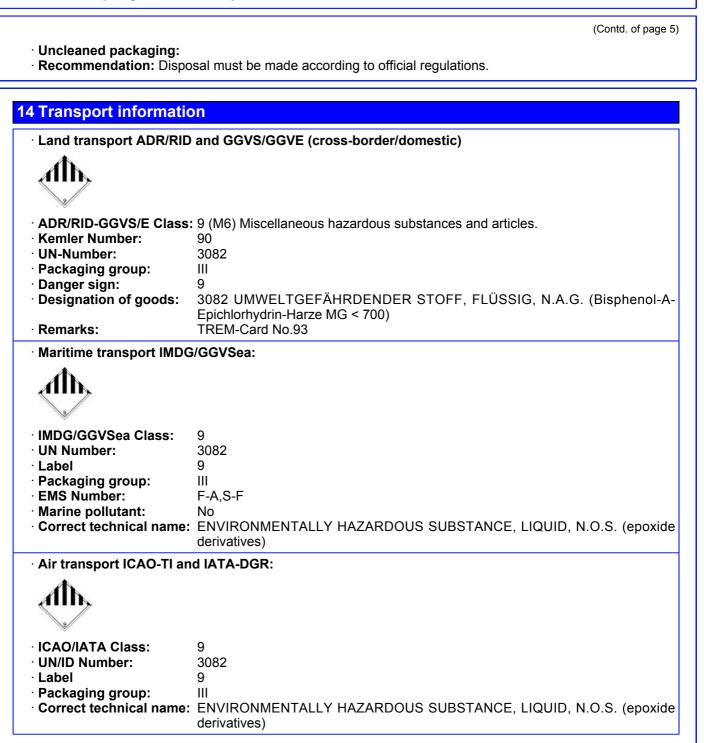
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15 Regulatory information

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

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· Code letter and hazard designation of product:



Xi Irritant N Dangerous for the environment

· Hazard-determining components of labelling:

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

· 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.
- 37/39 Wear suitable 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.

· National regulations

· Technical instructions (air):

Class	Proportion in %
NK	10-<20

· Water hazard class:

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

· Other regulations, limitations and prohibition ordinances

Professional Association (BG) Code of Practice:

M 023 "Polyester and 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.

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

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