

Pagel Spezial- Beton GmbH & Co. KG

EH 145 - Resin

1. Identification of substance/preparation and of the company/undertaking

Trade name : EH 145 - Resin
 Application of the substance / the preparation : Epoxy coating, Injection resin
 Company : Pagel Spezial Beton GmbH & Co. KG
 Wolfsbankring 9
 D-45355 Essen
 46569 Hünxe
 Phone number : ++49 (0)201 / 68504 0
 Emergency phone : Giftinformationszentrale Berlin
 0 30 / 19 240

2. Composition/Information on ingredients

Chemical characterization :
Description : Mixture of the substances listed below with harmless additions.
Dangerous components :

Chemical Name	CAS-No.	Symbol(s)	R-phrase(s)	Concentration
reaction product: bisphenol A-(epichlorhydrin): epoxy resin (number average molecular weight <700)	25068-38-6	,Xi, ,N,	R36/38-43-51/53	50-75%
bisphenol F-epoxy resin	9003-36-5	,Xi, ,N,	R36/38-43-51/53	10-25%
oxirane, mono[(C12-14-alkyloxy)methyl] derivs EC-No.: 271-846-8	68609-97-2	,Xi, ,N,	R36/38-43-51/53	5-15%
1,6-hexene-diglycidylether EC-No.: 240-260-4	16096-31-4	,Xi,	R36/38-43-52/53	5-15%

Additional information

For the wording of the listed risk phrases refer to section 16.

3. Hazards identification

Hazard designation:



Xi Irritant Dangerous for the environment

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Information pertaining to particular dangers for man and environment

Irritating to eyes and skin.

May cause sensitization by skin contact.

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 supplier companies.

4. First aid measures

- After eye contact : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
- After skin contact : Wash off with soap and plenty of water .If skin irritation persists,consult a specialist..
- After inhalation : Move to fresh air. If symptoms persist, call a physician.
- After swallowing : Rinse out mouth and then drink plenty of water. Seek medical treatment.
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5. Fire fighting measures

- Suitable extinguishing agents : Use fire fighting measures that suit the environment.
- Special hazards caused by the material, its products of combustion or flue 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 self-contained breathing apparatus.
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6. Accidental release measures

- Personal-related safety precautions : Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection : Prevent material from reaching sewage system, holes and cellars.
- Measures for cleaning/collecting : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
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7. Handling and storage

Handling:

- Information for safe handling : No special measures required.
- Information about protection against explosions and fires : No special measures required.

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Storage:

Requirements to be met : No special requirements.
by storerooms and
containers
Information about : Not required.
storage in one common
storage facility
Further information : Keep container tightly sealed.
about storage conditions

8. Exposure controls/personal protection

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

Components with critical values that require monitoring at the workplace:

Additional information: The lists that were valid during the compilation were used as basis.

Personal protective equipment:

General protective and : Keep away from foodstuffs, beverages and food.
hygienic measures : Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

Breathing equipment : Not required.

Eye protection : Tightly fitting safety glasses.

Protection of hands : Use gloves of stable material (e.g. Nitrile) – if necessary tricoted to improve the
wearability.

Material of gloves : Nitrile rubber, NBR
Buthyl rubber, BR

Penetration time of : The exact break trough time has to be found out by the manufacturer of the protective
glove material gloves and has to be observed.

Eye protection : Tightly sealed safety glasses.

Body protection : Protective work clothing.

9. Physical and chemical properties

Physical state : Liquid

Colour : colourless

Density : approx. 1,9 g/cm³ at 20°C Method.DIN 51757

Odour : Slight

Change in condition :
Melting point/ Melting : not determined
range

Boiling point / boiling : not determined
range

Self-inflammability : Product is not selfigniting.

Danger of explosion : Product is not explosive.

Solubility in / Miscibility : Not miscible or difficult to mix.

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with water

Flash point : approx. 130°C
 Method: DIN 51758 (Pensky-Martens Closed Cup)

Viscosity : approx. 350-550 mPa*s at 25°C

10. Stability and reactivity

Thermal decomposition / conditions to be avoided : No decomposition if used according to specifications.

Dangerous reactions : No dangerous reactions known

Dangerous products of composition : 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	>2000 mg/kg (rat)
	Dermal	LD50	>2000 mg/kg (rabbit)
Primary irritant effect:	9003-36-5 bisphenol F-epoxy resin		
	Oral	LD50	23800 mg/kg (rat)
	Dermal	LD50	>2000 mg/kg (rabbit)
	on the eye: irritant effect		
Additional toxicological information	on the skin: Irritant for skin and mucous membranes.		
	Sensitization Sensitization possible by skin contact.		
	The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant		

12. Ecological information

General notes : Do not allow product to reach ground water, water bodies or sewage system.

13. Disposal considerations

Product:

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

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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**Uncleaned packagings:****Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14. Transport information**Road transport**

ADR/RID:

UN-No: : 3082
Class : 9 Miscellaneous dangerous substances and articles.
Classification code : M6
Packaging group : III
Risk No. : 90
ADR/RID- Labels : 9
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
(epoxide derivates)

Sea transport

IMDG :

UN-No: : 3082
Class : 9
Packaging group : III
ADR/RID- Labels : 9
MFAG :
EmS : F-A, S-F
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
(epoxide derivates)

Air transport

IATA-DGR:

UN/ID No. : UN 3082
Class : 9
Packaging group : III
Packing instruction : 914
(cargo aircraft)
Max. Qty/Pack. : 999.00L
(999.00=No limit)

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Packing instruction : 914
 (passenger aircraft)
 ADR/RID- Labels : 9
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
 (epoxide derivatives)

15. Regulatory information

Designation according to EC guidelines:

The product has been labelled in accordance with EC Directives / relevant national laws.

Code letter and hazard designation of product :



Xi Irritant Dangerous for the environment

R-Phrases : R36/38: Irritating to eyes and skin.
 R43: May cause sensitization by skin contact.
 R51/53 : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

S-Phrases : S24: Avoid contact with skin.
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28: After contact with skin, wash immediately with plenty of soap and water.
 S37/39: Wear suitable gloves and eye/face protection.

Special designation of certain preparations : Contains epoxy constituents. See information supplied by the manufacturer.

Hazardous – determining components of labelling : reaction product: bisphenol A-(epichlorhydrin); epoxy resin
 (number average molecular weight < 700)
 oxirane, mono[(C12-14-alkyloxy)methyl] derives
 1,6-hexene-diglycidylether

16. Other information

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications.

List of R-phrases (Sektion 2)

R36/38 Irritating to eyes and skin.
 R43 May cause sensitization by skin contact.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Department issuing data specification sheet: Technic

Pagel Spezial- Beton GmbH & Co. KG

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Contact:

laboratory
