



Pagel Spezial- Beton GmbH & Co. KG

EH 120 - Resin

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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.

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**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.

**Storage:**

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

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**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 completion were used as basis.**

***Personal protective equipment:***

General protective and hygienic measures : Keep away from foodstuffs, beverages and food.  
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 : Material of gloves for long term application (BTT>480 min):  
Butyl rubber  
Ethyl Vinyl Alcohol Laminate (EVAL)  
Material of gloves for short term/splash application (10min<BTT<480min):  
Nitrile rubber  
Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US).  
Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.  
Additional information can be found for instance at [www.gisbau.de](http://www.gisbau.de)

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

Penetration time of glove material : 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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**9. Physical and chemical properties**

Physical state : Liquid

Colour : According to product specification

Density : approx. 1,5 g/cm<sup>3</sup> at 20°C Method.DIN 51757

Odour : Slight

Change in condition  
Melting point/ Melting range : not determined

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Boiling point / boiling range : not determined

Self-inflammability : Product is not selfigniting.

Danger of explosion : Product is not explosive.

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

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

Viscosity : approx. 4000-5000 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**

<b>Acute toxicity</b>	<b>LD/LC50 values that are relevant for classification:</b>		
	<b>25068-38-6 reaction product: bisphenol A-(epichlorhydrin): epoxy resin (number average molecular weight &lt;700)</b>		
	Oral	LD50	>2000 mg/kg (rat)
	Dermal	LD50	>2000 mg/kg (rabbit)
<b>Primary irritant effect:</b>	<b>9003-36-5 bisphenol F-epoxy resin</b>		
	Oral	LD50	23800 mg/kg (rat)
	Dermal	LD50	>2000 mg/kg (rabbit)
	on the eye: irritant effect		
<b>Additional toxicological information</b>	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:**

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**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

**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.

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**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 derivatives)

**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 derivatives)

**Air transport**

IATA-DGR:

UN/ID No. : UN 3082

Class : 9

Packaging group : III

Packing instruction : 914  
(cargo aircraft)

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Max. Qty/Pack. : 999.00L  
(999.00=No limit)

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  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Department issuing data specification sheet:** Technic

**Contact:** laboratory