

EC Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

*and Regulation (EU) Nr. 453/2010 amended by Regulation (EU) No. 2015/830

1. Identification of substance and the Company

Product details

Trade name	Perma Evolution
Application	permanent root filling material (Sealer)

Manufacturer / Supplier

Alfred Becht GmbH
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2. *Hazards identification

Particular information of danger for human and environment:
Classification in accordance with Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures

Danger description:



GHS07

Signal words: Warning

Hazard statements:

Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Eye Irrit. 2 H319 Causes serious eye irritation.

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/Data on components

- Chemical characterisation / Description:

Mixture of the substances listed below with harmless additions:

Ingredients	CAS-No. EINECS-No.	Labeling.(EG 1272/2008)	H-phrases	Concentration
Diethylentriamin, 2,2'-Iminodi (ethylamin)	111-40-0 203-865-4	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1	H312, H302 H314, H317	1,0 – 5,0%
Bisphenl-A- Epichlorhydrin resin	25068-38-6	Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2	H315, H317 H319	20,0 – 25,0%

Additional information:

*Hazard statements, please refer to chapter 16.

4. First aid measures

- General information: if you feel unwell, seek medical advice
- After skin contact: Wash with plenty of water and soap. Take off immediately all contaminated clothing.
- After eye contact: After contact with eyes, rinse immediately with plenty of water (15 minutes approx. with spreaded eyelid) and seek medical advice.
Recommendation: keep eye wash bottle at working place
- After swallowing: Rinse mouth with water. If you feel unwell, seek medical advice
- After inhaling: Ensure adequate ventilation. If you feel unwell, seek medical advice

5. Fire fighting measures

Suitable extinguishing agents: foam, extinguishing powder or water jet, sand, water, CO2
Extinguishing agents not to be used: No data available

Special hazards caused by the material, its products of combustion or resulting gases:
Under certain fire conditions, traces of other toxic gases cannot be excluded.

Special protective equipment: Wear protective clothes and use suitable respiratory
Equipment. Avoid contact with skin and eyes.

6. Accidental release measures

- Person-related safety precautions: Wear protective clothing. Avoid contact with skin and eyes.
- Measures for environmental protection: Do not allow undiluted product to reach sewage system or surface water systems.
- Measures for cleaning/ collecting: Absorb with liquid-binding material. Dispose of the material collected according to official regulations.

7. Handling and storage

Handling

- Information for safe handling:
Avoid contact with eyes and skin. If contact with mucous membranes remove with appropriate material, e.g. cotton pellets. Rinse with plenty of water.
- Information about protection against explosions and fires:
No special measures required

Storage

- Requirements to be met by storerooms and containers.
Keep container tightly sealed.

Do not heat up above 30°C
Storage temperature: 20°C - 25°C
- Information about storage in one common storage facility
not required

8. Exposure controls and personal protection

General protective and hygienic measures:

- keep away from foodstuffs, beverages and food.
- Avoid contact with skin and eyes
- wash hands during breaks and at the end of the work.
- Take off contaminated clothing and wash before reuse.

Protection against inhalation: not required

Protection of hands: wear chemical resistant gloves

Eye protection: wear protecting glasses with side shields

Skin protection. wear suitable protecting clothing (with long sleeves)

Protective measures

keep eye wash bottle at working place

9. Physical and chemical properties

- | | |
|--------------------------------|------------------------------|
| - Form: | Paste |
| - Colour: | white |
| - Odour: | odourless |
| - pH-value: | 7 - 9 |
| - Melting point/ Melting range | not applicable |
| - Boiling point/ Boiling range | not applicable |
| - Flash point: | >100° C |
| - Self-igniting: | Product is not self-igniting |
| - Danger of explosion: | Product is not explosive |
| - Density: | *1,7 – 1,9 g/ml (20°C) |
| - Solubility: | low alcohol and detergent |
| - Viscosity:
dynamic: | not applicable |

10. Stability and reactivity

Thermal decomposition/ conditions to be avoided

- Do not heat up above 30° C

Dangerous reactions:

- no dangerous reactions if used according to specifications
- dangerous polymerisation will not occur

Dangerous products of decomposition

- no dangerous products of decomposition if used according to specifications.

11. Toxicological information

Acute toxicity:

Diethylentriamin LD 50 Ratte (oral): 1553 mg/kg (OECD-Guideline 401)

Polylox E 064 LD 50 (oral, Ratte): >2000mg/kg

Primary irritating effect: may cause caustic effect on eyes and skin

Sensitisation: possible by skin contact

12. Ecological information:

No data available

13. Disposal considerations

Recommendations:

Product: Disposal should be made according to official regulations.

Uncleaned packaging: Disposal must be made according to official regulations.

14. Transport information

Not dangerous according to road, sea and air traffic specifications chapter 3.5 limited quantities.

15. Regulatory information

Designation according to EC guidelines:

This product is classified and labeled in accordance regulation (EC) Nr. 1272/2008

Labelling of packages where the contents do not exceed 125 ml (except 1.5.2 Regulation) do not have the mandatory labeling elements.

Danger description:



GHS07

Signal words: Warning

Hazard statements:

H315 Causes skin irritation, Category 2
H317 May cause an allergic skin reaction., Category 1
H319 Causes serious eye irritation, Category 2

Precautions statements:

P102 Keep out of reach of children
P280 Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P405 Store locked up.
P410 Protect from sunlight.

Classification as medical device. Class IIa, Rule8, UMDNS-No. 17-611
Storage class VCI: no data available

National Regulations:

Water Hazard Class: no data available

*Related EC-Directives:

Dangerous Preparation Directive (1999/45/EC), latest amendment by the directive (EC) No. 1907/2006. Dangerous substance directive (67/548/EEC), replaced by Regulation (EU) Nr. 2015/830 REACH Directive (EC) No. 1907/2006, latest amendment by the directive (EC) No. 552/2009. Directive (EC) No. 1272/2008 (CLP-(EC-GHS-)Directive)

16. Other information:

n.a. = non applicable

* = modifications to last version

Hazard statements which are referred to in part 2 and 3 according to regulation (EC) Nr. 1272/2008

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

This data is based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.