

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifiers**Article No. (manufacturer/supplier) 10-162-099
Identification of the substance or mixture RELAFLOOR 162 2K-EP -B-
Hardener, Component B**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses:**

Hardener for 2 component epoxy resins or coatings

1.3. Details to the supplier providing the material safety data sheet**Producer:****FEYCOLOR GmbH**Maxhuettenstraße 6,
93055 Regensburg,
Germany

Tel.: +49 (0) 941/ 60497-0

Fax.: +49 (0) 941/ 60497-30

info@feycolor.com

www.feycolor.com

Office hours:

Monday - Thursday: 08:00 - 12:00 and 13:00 - 16:00

Friday: 08:00 - 12:00

Department responsible for information:

Hazardous material management: sd@feycolor.com

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

This mixture is classified as hazardous according to 1999/45/EC.

Xn; R20/22

Harmful

Harmful by inhalation and if swallowed.

C; R35

Corrosive

Causes severe burns.

R43

May cause sensitization by skin contact.

R52-53

Harmful to aquatic life. May cause long-term
adverse effects in the aquatic environment.

Repr.Cat.3; R62

Reproductive toxic Cat.3 (Repr. Cat. 3)

Possible risk of impaired fertility.

2.2. Label elements**Labelling (67/548/EEC or 1999/45/EC)**

C Corrosive

Hazard statements

20/22

Harmful by inhalation and if swallowed.

35

Causes severe burns.

43

May cause sensitization by skin contact.

52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

62

Possible risk of impaired fertility.

Precautionary statements

24

Avoid contact with skin.

26

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

36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

38

In case of insufficient ventilation, wear suitable respiratory equipment.

45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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Use only in well-ventilated areas.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010

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61 Avoid release to the environment. Refer to special instructions/safety data sheet.

contains:

m-Xylylendiamine
 p-tert.-Butylphenole PTBP
 3,6-diazaoctanethylenediamin
 3-aminopropyldimethylamine
 Trimethylhexamethylendiamin

Special provisions concerning the labelling of certain mixtures

n.a.

2.3. **Other hazards**

SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

Product description / chemical characterization

Description Solvent free polyamide resin

Hazardous ingredients

Classification according to Regulation (EC) No. 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification	Wt % Remark
68410-23-1	Polyaminoamide Eye Dam. 1 H318	25 - 50
202-859-9 100-51-6 603-057-00-5	01-2119492630-38 benzyl alcohol Acute Tox. 4 H332 / Acute Tox. 4 H302	20 - 25
216-032-5 1477-55-0	01-2119480150-50 1,3-Bis(aminomethyl)benzene Skin Corr. 1B H314 / Acute Tox. 4 H332 / Acute Tox. 4 H302 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	20 - 25
202-679-0 98-54-4	p-tert.-butylphenol STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	12,5 - 20
247-134-8 25620-58-0	1,6-diamino-2,2,4(2,4,4)-trimethylhexane Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	5 - 10
202-013-9 90-72-2 603-069-00-0 203-950-6	01-2119560597-27-0000 2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315	1 - 2,5
112-24-3 612-059-00-5	3,6-diazaoctanethylenediamin Acute Tox. 4 H312 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	1 - 2,5
203-680-9 109-55-7 612-061-00-6	3-aminopropyldimethylamine Flam. Liq. 3 H226 / Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317	1 - 2,5

Classification according to Directive 67/548/EEC or 1999/45/EC

EC No. CAS No. INDEX No.	REACH No. Chemical name classification	Wt % Remark
68410-23-1	Polyaminoamid Xi; R41	25 - 50

202-859-9 100-51-6 603-057-00-5	01-2119492630-38 benzyl alcohol Xn; R20/22	20 - 25
216-032-5 1477-55-0	01-2119480150-50 m-Xylylendiamine C; R35 / Xn; R20/22 / R43 / R52-53	20 - 25
202-679-0 98-54-4	p-tert.-Butylphenole PTBP Repr.Cat.3; R62 / Xi; R37/38-41 / N; R51-53	12,5 - 20
247-134-8 25620-58-0	Trimethylhexamethylendiamin Xn; R22 / C; R34 / R43 / R52-53	5 - 10
202-013-9 90-72-2 603-069-00-0	01-2119560597-27-0000 2,4,6-tris(dimethylaminomethyl)phenol Xn; R22 / Xi; R36/38	1 - 2,5
203-950-6 112-24-3 612-059-00-5	3,6-diazaoctanethylenediamin Xn; R21 / C; R34 / R43 / R52-53	1 - 2,5
203-680-9 109-55-7 612-061-00-6	3-aminopropyldimethylamine R10 / Xn; R22 / C; R34 / R43	1 - 2,5

Additional information

Full text of R-phrases: see section 16.
 Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advices on safe handling**

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limit values:**

p-tert.-Butylphenole PTBP

EC No. 202-679-0 / CAS No. 98-54-4

EG, TWA: 0,5 mg/m³; 0,08 ppm

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection

must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Dand protection

For prolonged or repeated handling the following glove material must be used: solventresistant Latex gloves
 Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.
 Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374
 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

Appearance:

Physical state

Colour see productname

Odour typical

Safety relevant basis data	Unit	Method	Remark
Flash point (°C):	100 °C		
Ignition temperature in °C:	305 °C		
lower explosion limit:	n.a.		
Upper explosion limit:	n.a.		
Vapour pressure at 20 °C:	n.a.		
Density at 20 °C: 20	1,00 g/cm³		
Water solubility (g/L):	partly soluble		
pH value at 20 °C: 20	n.a.		
Viscosity at 20 °C: 20	1700 mPa·s		
Solvent separation test (%):	< 3 %		
Solid content (%):	100 Wt %		
solvent content:			
Organic solvents:	0,00 Wt %		
Water:	0,00 Wt %		

9.2. **Other information**

SECTION 10: Stability and reactivity

10.1. **Reactivity**

10.2. **Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

No data on preparation itself available.

11.1. Information on toxicological effects**Acute toxicity**

Toxicological data are not available.

Irritant and corrosive effects

Toxicological data are not available.

Sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2. according to 67/548/EEC.

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and has not been classified.

SECTION 12: Ecological information**overall evaluation**

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

No information available.

Long-term Ecotoxicity

Toxicological data are not available.

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Appropriate disposal / Product
Recommendation**

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Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111 waste paint and varnish containing organic solvents or other dangerous substances

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

- 14.1. **UN number** 2735
- 14.2. **UN proper shipping name**
 Land transport (ADR/RID): Amines, liquid, corrosive, n.o.s.
 (Butylphenol(para-tert) Alpha, Alpha-Diamino-m-Xylene)
 Sea transport (IMDG): AMINES, LIQUID, CORROSIVE, N.O.S.
 (Butylphenol(para-tert) Alpha, Alpha-Diamino-m-Xylene)
 Air transport (ICAO-TI / IATA-DGR): Amines, liquid, corrosive, n.o.s.
 (Butylphenol(para-tert) Alpha, Alpha-Diamino-m-Xylene)
- 14.3. **Transport hazard class(es)** 8
- 14.4. **Packing group** II
- 14.5. **Environmental hazards**
 Land transport (ADR/RID) n.a.
 Marine pollutant n.a.
- 14.6. **Special precautions for user**
 Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
 Advices on safe handling: see parts 6 - 8

Additional information

Land transport (ADR/RID)

tunnel restriction code E

Sea transport (IMDG)

EmS-No. F-A, S-B

- 14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
 not applicable

SECTION 15: Regulatory information

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: < 1 g/l VOC
 VOC-value (in g/L) ASTM D 2369: < 1 g/l VOC

according to EU-regulation 2004/42/EC (appendix II)

EU limit value for this product (cat. nicht anwendbar): 0 g/l (2007)/0 g/l (2010).
 This product contains max <1 g/l VOC.

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the "juvenile work protection guideline" (94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2. **Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

Relevant R-and H-phrases (Number and full text):

Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
Xn; R20/22	Harmful	Harmful by inhalation and if swallowed.
Xn; R22	Harmful	Harmful if swallowed.
Xi; R36/38	Irritant	Irritating to eyes and skin.
Xn; R21	Harmful	Harmful in contact with skin.
C; R34	Corrosive	Causes burns.
R43		May cause sensitization by skin contact.
R52-53		Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.
R10		Flammable
Xi; R41	Irritant	Risk of serious damage to eyes.
C; R35	Corrosive	Causes severe burns.
Repr.Cat.3; R62	Reproductive toxic Cat.3 (Repr. Cat. 3)	Possible risk of impaired fertility.
Xi; R37/38-41	Irritant	Irritating to respiratory system and skin. Risk of serious damage to eyes.
N; R51-53	Dangerous for the environment	Toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.

Additional information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.