

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

**FEYCOLOR®**

Article No.: F04680099 RELAFLOOR 4680 2K PU WV  
Print date: 12.03.2020 Revision date: 11.12.2018  
Version: 1.5 Issue date: 11.10.2018

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Article No. (manufacturer/supplier) F04680099  
Trade name/designation RELAFLOOR 4680 2K PU WV  
Härter, Komponente B

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Relevant identified uses:**

Hardener for 2 component polyurethane resins or coatings

**1.3. Details of the supplier of the safety data sheet**

**manufacturer**

FEYCOLOR GmbH  
Maxhuettenstraße 6  
93055 Regensburg

Telephone: 0049 (0)941/60 49 7-0  
Telefax: 0049 (0)941/60 49 7-30  
E-mail info@feycolor.com  
Website: www.feycolor.com

**Dept. responsible for information:**

Department for dangerous goods 0049 (0)941/60 49 7-0  
E-mail (competent person) sd@feycolor.com

**1.4. Emergency telephone number**

Emergency telephone number +49 (0) 700 24 11 21 12 (FCM)  
Österreichische Vergiftungsinformationszentrale +43 (0) 1406 43 43

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

|                          |                                      |  |
|--------------------------|--------------------------------------|--|
| Acute Tox. 4 / H332      | Acute toxicity (inhalative)          | Harmful if inhaled.                                |
| Skin Irrit. 2 / H315     | Skin corrosion/irritation            | Causes skin irritation.                            |
| Eye Dam. 1 / H318        | Serious eye damage/eye irritation    | Causes serious eye damage.                         |
| Skin Sens. 1 / H317      | Respiratory or skin sensitisation    | May cause an allergic skin reaction.               |
| STOT SE 3 / H335         | STOT-single exposure                 | May cause respiratory irritation.                  |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment | Harmful to aquatic life with long lasting effects. |

**2.2. Label elements**

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

**Hazard pictograms**



**Danger**

**Hazard statements**

H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves and eye/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
P405 Keep locked up.  
P501 Dispose of contents/container to industrial incineration plant.

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**Hazard components for labelling**

1,6-Hexamethylene diisocyanate homopolymer  
Polyoxyethylene tridecyl ether phosphate  
hexamethylene-di-isocyanate

**Supplemental Hazard information (EU)**

EUH204 Contains isocyanates. May produce an allergic reaction.

**2.3. Other hazards**

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

**SECTION 3: Composition / information on ingredients**

**3.2. Mixtures**

**Description** Mixture of substances listed below with nonhazardous additions.

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

| EC No.       | REACH No.  | Wt %      |
|--------------|--|-----------|
| CAS No.      | Designation  |           |
| INDEX No.    | classification // Remark   |           |
| 500-060-2    | 01-2119485796-17   |           |
| 28182-81-2   | 1,6-Hexamethylene diisocyanate homopolymer<br>Acute Tox. 4 H332 / Skin Sens. 1 H317 / STOT SE 3 H335   | 50 < 100  |
| 9046-01-9    | Polyoxyethylene tridecyl ether phosphate<br>Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Aquatic Chronic 2 H411  | 10 < 12,5 |
| 202-715-5    | 01-2119533030-60   |           |
| 98-94-2      | N,N-Dimethylcyclohexylamine<br>Skin Corr. 1B H314 / Acute Tox. 4 H332 / Acute Tox. 4 H312 / Acute Tox. 4 H302  | 1 < 5     |
| 212-485-8    | 01-2119457571-37   |           |
| 822-06-0     | hexamethylene-di-isocyanate  | 0,3 < 0,5 |
| 615-011-00-1 | Acute Tox. 4 H302 / Acute Tox. 2 H330 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 / STOT SE 3 H335<br>Specific concentration limit (SCL): Resp. Sens. 1 H334 >= 0,5 / Skin Sens. 1 H317 >= 0,5 |           |

**Additional information**

Full text of classification: 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.

**In case of 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**

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

**After eye contact**

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**

First Aid, decontamination, treatment of symptoms.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

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. Advice for firefighters

Provide a conveniently located respiratory protective device. 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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 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 section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 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.

#### Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

### 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 (TRBS 2153)".

#### 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.

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limit values:**

not applicable

**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.

**Personal protection equipment**

**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.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material 0,7 mm; Breakthrough time (maximum wearing time) 60 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 EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

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 section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

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

**Appearance:**

**Physical state:**

**Liquid**

**Colour:**

**refer to label**

**Odour:**

**characteristic**

**Odour threshold:**

**not determined**

**pH at 20 °C:**

**not determined**

**Melting point/freezing point:**

**not determined**

**Initial boiling point and boiling range:**

**160 °C**

Source: N,N-Dimethylcyclohexylamine

**Flash point:**

**185 °C**

**Evaporation rate:**

**not determined**

**flammability**

**Burning time (s):**

**not applicable**

**Upper/lower flammability or explosive limits:**

**Lower explosion limit:**

**0,8 Vol-%**

**Upper explosion limit:**

**19 Vol-%**

Source: N,N-Dimethylcyclohexylamine

**Vapour pressure at 20 °C:**

**0,072 mbar**

**Vapour density:**

**not determined**

**Relative density:**

**Density at 20 °C:**

**1,13 g/cm<sup>3</sup>**

**Solubility(ies):**

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|  |  |
|--|--|
| <b>Water solubility (g/L) at 20 °C:</b>        | <b>insoluble</b>                                     |
| <b>Partition coefficient: n-octanol/water:</b> | <b>see section 12</b>                                |
| <b>Auto-ignition temperature:</b>              | <b>215 °C</b><br>Source: N,N-Dimethylcyclohexylamine |
| <b>Decomposition temperature:</b>              | <b>not determined</b>                                |
| <b>Viscosity at 20 °C:</b>                     | <b>650 mPa*s</b>                                     |
| <b>Explosive properties:</b>                   | <b>not applicable</b>                                |
| <b>Oxidising properties:</b>                   | <b>not applicable</b>                                |
| 9.2. <b>Other information</b>                  |  |
| <b>Solid content (%):</b>                      | <b>98,00 Wt %</b>                                    |
| <b>solvent content:</b>                        |  |
| <b>Organic solvents:</b>                       | <b>2,00 Wt %</b>                                     |
| <b>Water:</b>                                  | <b>0,00 Wt %</b>                                     |
| <b>Solvent separation test (%):</b>            | <b>&lt; 3 Wt % (ADR/RID)</b>                         |

#### **SECTION 10: Stability and reactivity**

- 10.1. **Reactivity**  
No information available.
- 10.2. **Chemical stability**  
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 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**  
Hazardous decomposition byproducts may form with exposure to high temperatures.
- 10.5. **Incompatible materials**  
No information available.
- 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**

- Classification according to Regulation (EC) No 1272/2008 [CLP]
- 11.1. **Information on toxicological effects**  
No data on preparation itself available.
- Acute toxicity, calculated:**  
ATEmix calculated, oral: > 5000 mg/kg  
ATEmix calculated, dermal: > 5000 mg/kg  
ATEmix calculated, inhalative (vapours): 12 mg/l
- Acute toxicity**  
Harmful if inhaled.  
1,6-Hexamethylene diisocyanate homopolymer  
inhalative (vapours), LC50, Rat (4 h)  
Harmful if inhaled.
- Skin corrosion/irritation; Serious eye damage/eye irritation**  
Causes skin irritation.  
Causes serious eye damage.
- Respiratory or skin sensitisation**  
May cause an allergic skin reaction.  
1,6-Hexamethylene diisocyanate homopolymer  
Skin:

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May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Based on available data, the classification criteria are not met.

**STOT-single exposure; STOT-repeated exposure**

May cause respiratory irritation.

1,6-Hexamethylene diisocyanate homopolymer

Specific target organ toxicity (single exposure), Irritation

May cause respiratory irritation.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. 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 mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

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

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

Based on available data, the classification criteria are not met.

**Long-term Ecotoxicity**

Harmful to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**Bioconcentration factor (BCF)**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

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 directive 2008/98/EC, 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

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

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



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**SECTION 14: Transport information**

**No dangerous good in sense of this transport regulation.**

14.1. **UN number** not applicable

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)** not applicable

14.4. **Packing group** not applicable

14.5. **Environmental hazards**

Land transport (ADR/RID) not applicable

Marine pollutant not applicable

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

**Further information**

**Land transport (ADR/RID)**

tunnel restriction code -

**Sea transport (IMDG)**

EmS-No. not applicable

14.7. **Transport in bulk according to Annex II of Marpol 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**

**Directive 2010/75/EU on industrial emissions**

VOC-value (in g/L): 23

**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**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

| EC No.<br>CAS No.       | Designation                                | REACH No.        |
|-------------------------|--|------------------|
| 500-060-2<br>28182-81-2 | 1,6-Hexamethylene diisocyanate homopolymer | 01-2119485796-17 |
| 202-715-5<br>98-94-2    | N,N-Dimethylcyclohexylamine                | 01-2119533030-60 |
| 212-485-8<br>822-06-0   | hexamethylene-di-isocyanate                | 01-2119457571-37 |

**SECTION 16: Other information**

**Full text of classification in section 3:**

Acute Tox. 4 / H332

Skin Sens. 1 / H317

STOT SE 3 / H335

Skin Irrit. 2 / H315

Acute toxicity (inhalative)

Respiratory or skin sensitisation

STOT-single exposure

Skin corrosion/irritation

Harmful if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

Causes skin irritation.

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|                          |                                      |  |
|--------------------------|--------------------------------------|--|
| Eye Dam. 1 / H318        | Serious eye damage/eye irritation    | Causes serious eye damage.   |
| Aquatic Chronic 2 / H411 | Hazardous to the aquatic environment | Toxic to aquatic life with long lasting effects.                           |
| Skin Corr. 1B / H314     | Skin corrosion/irritation            | Causes severe skin burns and eye damage.                                   |
| Acute Tox. 4 / H312      | Acute toxicity (dermal)              | Harmful in contact with skin.  |
| Acute Tox. 4 / H302      | Acute toxicity (oral)                | Harmful if swallowed.  |
| Acute Tox. 2 / H330      | Acute toxicity (inhalative)          | Fatal if inhaled.  |
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    | Causes serious eye irritation.   |
| Resp. Sens. 1 / H334     | Respiratory or skin sensitisation    | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

#### Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

|                   |                                      |                     |
|-------------------|--------------------------------------|---------------------|
| Acute Tox. 4      | Acute toxicity (inhalative)          | Calculation method. |
| Skin Irrit. 2     | Skin corrosion/irritation            | Calculation method. |
| Eye Dam. 1        | Serious eye damage/eye irritation    | Calculation method. |
| Skin Sens. 1      | Respiratory or skin sensitisation    | Calculation method. |
| STOT SE 3         | STOT-single exposure                 | Calculation method. |
| Aquatic Chronic 3 | Hazardous to the aquatic environment | Calculation method. |

#### Abbreviations and acronyms

|           |   |
|-----------|---|
| ADR       | European Agreement concerning the International Carriage of Dangerous Goods by Road                               |
| OEL       | Occupational Exposure Limit Value   |
| BLV       | Biological Limit Value  |
| CAS       | Chemical Abstracts Service  |
| CLP       | Classification, Labelling and Packaging   |
| CMR       | Carcinogenic, Mutagenic and Reprotoxic  |
| DIN       | German Institute for Standardization / German industrial standard   |
| DNEL      | Derived No-Effect Level   |
| EAKV      | European Waste Catalogue Directive  |
| EC        | Effective Concentration   |
| EC        | European Community  |
| EN        | European Standard   |
| IATA-DGR  | International Air Transport Association – Dangerous Goods Regulations   |
| IBC Code  | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk               |
| ICAO-TI   | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| IMDG Code | International Maritime Code for Dangerous Goods   |
| ISO       | International Organization for Standardization  |
| LC        | Lethal Concentration  |
| LD        | Lethal Dose   |
| MARPOL    | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships                       |
| OECD      | Organisation for Economic Cooperation and Development   |
| PBT       | persistent, bioaccumulative, toxic  |
| PNEC      | Predicted No Effect Concentration   |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail                                      |
| UN        | United Nations  |
| VOC       | Volatile Organic Compounds  |
| vPvB      | very persistent and very bioaccumulative  |

#### Further information

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

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.