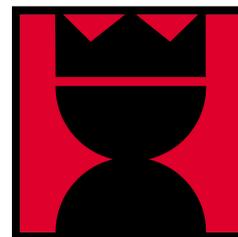


**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010



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

**1.1. Product identifiers**

Article No. (manufacturer/supplier) 170000  
Identification of the substance or mixture Hardener 10g

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

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

**supplier (manufacturer/importer/downstream user/distributor)**

Heinrich König & Co.KG  
An der Rosenhelle 5 Telephone: +49 6101 53600  
D-61138 Niederdorfelden Telefax: +49 6101 5360 11

**Dept. responsible for information:**

Labor +49 6101 536071  
Only available during office hours: Monday - Thursday 07:00 - 15:30  
Friday 07:00 - 12:30

E-mail (competent person) info@heinrich-koenig.de

**1.4. Emergency telephone number**

Emergency telephone number Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

**SECTION 2: Hazards identification**

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

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

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

Org. Perox. CD / H242	Organic peroxides	Heating may cause a fire.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.

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

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

O; R8	Oxidising	Contact with combustible material may cause fire.
Xi; R36	Irritant	Irritating to eyes.
R43		May cause sensitization by skin contact.

**2.2. Label elements**

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

**Hazard pictograms**



**Warning**

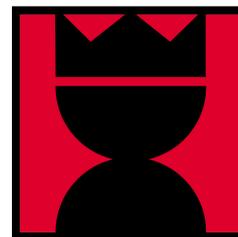
**Hazard statements**

H242 Heating may cause a fire.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H400 Very toxic to aquatic life.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 Keep/Store away from combustible materials.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves and protective clothing.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.

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P410 Protect from sunlight.  
P420 Store away from other materials.

**contains:**

dibenzoyl peroxide

**Supplemental Hazard information (EU)**

n.a.

**Labelling (67/548/EEC or 1999/45/EC)**



O Oxidizing



Xi Irritant

**Hazard statements**

8 Contact with combustible material may cause fire.  
36 Irritating to eyes.  
43 May cause sensitization by skin contact.

**Precautionary statements**

17 Keep away from combustible material.  
24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
3/7 Keep container tightly closed in a cool place.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**contains:**

dibenzoyl peroxide

**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** Härter "Dibenzoyl-Peroxid"

**Hazardous ingredients**

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
202-327-6		
94-36-0	dibenzoyl peroxide	25 - 50
617-008-00-0	Org. Perox. CD H242 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Acute 1 H400	

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
202-327-6		
94-36-0	dibenzoyl peroxide	25 - 50
617-008-00-0	E; R3 / O; R7 / Xi; R36 / R43	

**Additional information**

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

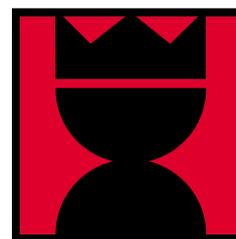
**SECTION 4: First aid measures**

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

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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**

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

**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**

**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. **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. Treat runoff as hazardous.

**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. 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**

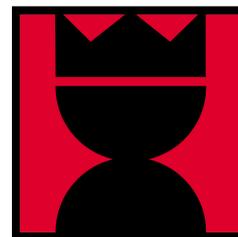
7.1. **Precautions for safe handling**

**Advices on safe handling**

Avoid 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. Take precautionary measures against static discharge. 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. Personal protection equipment: refer to chapter 8. Follow the legal protection and safety regulations. To avoid the risk of fire, do not allow this product to dry out. Explosive when dry.

7.2. **Conditions for safe storage, including any incompatibilities**

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**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Lighting and other electric equipment must be explosion protected in order to avoid hot surfaces, sparks and other ignition sources. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Always close containers tightly after the removal of product.

**Hints on joint storage**

Keep away from combustible material. Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water.

**Further information on storage conditions**

Always keep in containers that correspond to the material of the original container. 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.

7.3. **Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

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

8.1. **Control parameters**

**Occupational exposure limit values:**

dibenzoyl peroxide  
INDEX No. 617-008-00-0 / EC No. 202-327-6 / CAS No. 94-36-0  
TWA: 5 mg/m<sup>3</sup>

**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.

**Hand protection**

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

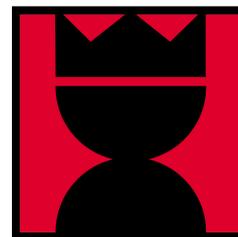
9.1. **Information on basic physical and chemical properties**

**Appearance:**

**Physical state** solid  
**Colour** characteristic  
**Odour** characteristic

Safety relevant basis data	Unit	Method	Remark
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<b>Flash point (°C):</b>	500 °C	c.c.
<b>Ignition temperature in °C:</b>	n.a.	
<b>Lower explosion limit:</b>	n.a.	
<b>Upper explosion limit:</b>	n.a.	
<b>Vapour pressure at 20 °C:</b>	n.a.	
<b>Density at 20 °C:</b>	1,14 g/cm <sup>3</sup>	
<b>Water solubility (g/L):</b>	insoluble	
<b>pH at 20 °C:</b>	-	
<b>Viscosity at 20 °C:</b>	999 s 4 mm	DIN 53211
<b>Solid content (%):</b>	100,00 Wt %	
<b>solvent content:</b>		
<b>Organic solvents:</b>	0 Wt %	
<b>Water:</b>	0 Wt %	
<b>Decomposition temperature:</b>	> 50	

9.2. **Other information:**

**SECTION 10: Stability and reactivity**

10.1. **Reactivity**

und bestimmungsgemäßem Gebrauch

10.2. **Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Keep away from: Copper, Iron.

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, benzene, nitrogen oxides. Keine Entstehungsgefahr der oben angeführten Produkte bei sachgemäßem Umgang

**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**

dibenzoylperoxide  
Skin (4 h)

**Sensitisation**

dibenzoylperoxide  
Skin:

**Specific target organ toxicity**

Toxicological data are not available.

**Aspiration hazard**

Toxicological data are not available.

**Practical experience/human evidence**

**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.

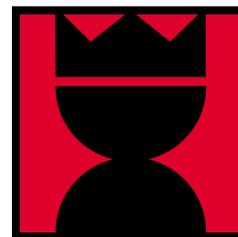
There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

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## 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

Hardener 10g  
Fish toxicity, LC50: (96 h)

#### 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

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

##### packaging

##### Recommendation

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

## SECTION 14: Transport information

#### 14.1. UN number

3108

#### 14.2. UN proper shipping name

Land transport (ADR/RID): Organic peroxide type E, solid  
Sea transport (IMDG): ORGANIC PEROXIDE TYPE E, SOLID  
Air transport (ICAO-TI / IATA-DGR): Organic peroxide type E, solid

#### 14.3. Transport hazard class(es)

Land transport (ADR/RID): 5.2  
Sea transport (IMDG): n.a.  
Air transport (ICAO-TI / IATA-DGR): n.a.

#### 14.4. Packing group

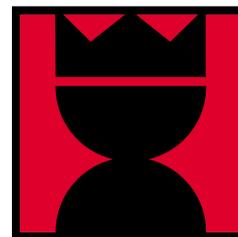
n.a.

#### 14.5. Environmental hazards

Land transport (ADR/RID): UMWELTGEFÄHRDEND  
Marine pollutant: n.a.

#### 14.6. Special precautions for user

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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 D

**Sea transport (IMDG)**

EmS-No. F-J,S-R

**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: 0,000

VOC-value (in g/L) ASTM D 2369: 0,000

**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):**

Org. Perox. CD / H242	Organic peroxides	Heating may cause a fire.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.
E; R3	Explosive	Extreme risk of explosion by shock, friction, fire or other sources of ignition.
O; R7	Oxidising	May cause fire.
Xi; R36	Irritant	Irritating to eyes.
R43		May cause sensitization by skin contact.

**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.