

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

Article No.: 671 01-0050-4 HÄRTERPULVER
Print date: 07.09.2015 Revision date: 19.06.2015 105003 EN
Version: 11-0 Issue date: 31.10.2014 Page 1 / 7

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

1.1. Product identifiers

Article No. (manufacturer/supplier) 671 01-0050-4
Identification of the substance or mixture HÄRTERPULVER
für BRAFAPOL

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

Relevant identified uses
hardener

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Teleplast GmbH & Co. KG
Petzvalstrasse 37 Telephone: +49 531 237 28-0
D 38104 Braunschweig Telefax: +49 531 237 28-12

Dept. responsible for information:

Laboratory
E-mail sicherheitsdatenblaetter@teleplast.de

1.4. Emergency telephone number

GIZ-Nord Poisons Centre +49 551 19240
(german / english) (german / english)

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].

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.

2.2. Label elements

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

Hazard pictograms



Warning

Hazard statements

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing.
P391 Collect spillage.
P502 Refer to manufacturer/supplier for information on recovery/recycling.

contains:

dibenzoyl peroxide

Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Organic peroxides

Hazardous ingredients

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

EC No.	REACH No.	Wt %
CAS No.	Chemical name	Remark
INDEX No.	classification:	
202-327-6	01-2119511472-50-xxxx	
94-36-0	dibenzoyl peroxide	20 - 25
617-008-00-0	Org. Perox. B H241 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Acute 1 H400	

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.

Following 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.

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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

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 10 °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/m³

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

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For prolonged or repeated handling the following glove material must be used: 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 white
Odour characteristic

Safety relevant basis data

	Unit	Method	Remark
Flash point (°C):	not applicable °C	determined	
Ignition temperature in °C:	not applicable °C	literature value	
Lower explosion limit:	not determined Vol-%	literature value	
Upper explosion limit:	not determined Vol-%	literature value	
Vapour pressure at 20 °C:	not applicable mbar	literature value	
Density at 20 °C:	2,29 g/cm ³	determined	according to DIN 53 217

Water solubility (g/L): insoluble
pH at 20 °C: -
Viscosity at °C: Pulver
Solid content (%): 100,00 Wt %
solvent content:
Organic solvents: 0,00 Wt %
Water: 0,00 Wt %
Decomposition temperature: > 50

9.2. Other information:

SECTION 10: Stability and reactivity

10.1. Reactivity

none, if used correctly

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. none, if used correctly

SECTION 11: Toxicological information

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No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

dibenzoyl peroxide
oral, LD50, Rat: > 5000 mg/kg
inhalative (dust and mist), LC50, Rat: > 24300 mg/L (4 h)

skin corrosion/irritation; Serious eye damage/eye irritation

dibenzoyl peroxide
Skin
slightly irritant
Eyes

Respiratory or skin sensitisation

dibenzoyl peroxide
Skin:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

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 mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation

Classification according to Regulation (EC) No. 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains.

12.1. Toxicity

dibenzoyl peroxide
Fish toxicity, LC50: 0,06 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 0,11 mg/L (48 h)
Algae toxicity, EC50: 0,06 mg/L (72 h)
Bacteria toxicity, EC50: 35 mg/L

Long-term Ecotoxicity

Toxicological data are not available.

12.2. Persistence and degradability

dibenzoyl peroxide
Abiotic degradation, Half-life time:: (144 min)
Biodegradation:

12.3. Bioaccumulative potential

dibenzoyl peroxide
Distribution coefficient (n-octanol / water) (log P O/W): 0 - 3,8

Bioconcentration factor (BCF)

dibenzoyl peroxide
Bioconcentration factor (BCF): 66,6

12.4. Mobility in soil

Toxicological data are not available.

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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

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

080201 waste coating powders
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

3077

14.2. UN proper shipping name

Land transport (ADR/RID):

Environmentally hazardous substance, solid, n.o.s.
(Dibenzoylperoxid)

Sea transport (IMDG):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Dibenzoylperoxid)

Air transport (ICAO-TI / IATA-DGR):

Environmentally hazardous substance, solid, n.o.s.
(Dibenzoylperoxid)

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p

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-F

Special provision ADR / RID 375: transport facilitation for the class 9, UN 3077 in containers with a maximum of 5 kg or 5 liters

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

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

VOC-value (in g/L) ISO 11890-2: 0,0
VOC-value (in g/L) ASTM D 2369: 0,0

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

Full text of classification in section 3:

Org. Perox. B / H241	Organic peroxides	Heating may cause a fire or explosion.
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.

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Additional 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.