

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 19.11.2024

Version number 11 (replaces version 10)

Revision: 19.11.2024

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

### 1.1 Product identifier

Trade name: **Hardenerpaste 10:1 for Colour Bond, MS 76 und Monument Filler**

Article number: 10911, 10736

UFI: RSW2-50AP-200E-1GEA

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

No further relevant information available.

### Application of the substance / the mixture

Hardening agent/ Curing agent

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg

Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

### Further information obtainable from:

Laboratory

### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN: Wash with plenty of water.  
If eye irritation persists: Get medical advice/attention.  
IF exposed or concerned: Get medical advice/attention.

### Storage:

Store in a well-ventilated place. Keep cool.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS07 GHS09

#### Signal word

Warning

#### Hazard-determining components of labelling:

dibenzoyl peroxide

#### Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

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P302+P352 IF ON SKIN: Wash with plenty of 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.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 94-36-0	dibenzoyl peroxide	12.5-25%
EINECS: 202-327-6	Org. Perox. B, H241	
Index number: 617-008-00-0	Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	
Reg.nr.: 01-2119511472-50	Eye Irrit. 2, H319; Skin Sens. 1, H317	

Additional information: For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**5.2 Special hazards arising from the substance or mixture**

Under certain fire conditions, traces of other toxic gases cannot be excluded.

**5.3 Advice for firefighters**

Protective equipment: Do not inhale explosion gases or combustion gases.

Additional information: Cool endangered receptacles with water spray.

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**      Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**      Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**      Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **6.4 Reference to other sections**      See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**      Ensure good ventilation/exhaustion at the workplace.  
Keep receptacles tightly sealed.  
Store in cool, dry place in tightly closed receptacles.  
Prevent formation of aerosols.  
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
- **Information about fire - and explosion protection:**      Protect from heat.  
Prevent impact and friction.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**      No special requirements.
- **Information about storage in one common storage facility:**      Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:**      Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Protect from contamination.  
Store in a cool place.
- **Storage class:**      11
- **7.3 Specific end use(s)**      No further relevant information available.

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

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**      The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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## · DNELs

**94-36-0 dibenzoyl peroxide**

Oral	DNEL (Langzeit-wiederholt)	1.65 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	13.3 mg/kg bw/day (ARB)
Inhalative	DNEL (Langzeit-wiederholt)	39 mg/m <sup>3</sup> Air (ARB)
		3.84 mg/m <sup>3</sup> Air (BEV)

## · PNECs

**94-36-0 dibenzoyl peroxide**

PNEC (wässrig)	0.35 mg/l (KA)
	0.000002 mg/l (MW)
	0.00002 mg/l (SW)
	0.000602 mg/l (WAS)
PNEC (fest)	0.0025 mg/kg Trockengew (BO)
	0.00127 mg/kg Trockengew (MWS)
	0.0127 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.· **8.2 Exposure controls**· Appropriate engineering controls No further data; see section 7.· Individual protection measures, such as personal protective equipment· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

· Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Filter A/P2

· Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type.

The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior

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- to the application.  
Butyl rubber, BR  
Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR  
Neoprene gloves
- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye/face protection  Tightly sealed goggles
  - Body protection: Protective work clothing

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- General Information
- Colour: Whitish
- Odour: Specific type
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range Undetermined.
- Flash point: Not applicable.
- Decomposition temperature: 50 °C (SADT)
- pH Not applicable.
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic: Not applicable.
- Solubility Not determined.
- water: Not applicable.
- Vapour pressure at 20 °C: Not applicable.
- Density and/or relative density Not applicable.
- Density at 20 °C: Not applicable.
- Particle characteristics Not applicable.

**9.2 Other information**

- Appearance:
- Form: Pasty
- Important information on protection of health and environment, and on safety.
- Ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.
- Solvent content:
- Water: 10.0 %
- Solids content: 97.5 %

**Information with regard to physical hazard classes**

- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void
- Gases under pressure Void
- Flammable liquids Void
- Flammable solids Void
- Self-reactive substances and mixtures Void
- Pyrophoric liquids Void

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· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Self accelerating decomposition at 50°C (SADT)
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
- **10.6 Hazardous decomposition products:** Hydrocarbons, carbondioxide and -monoxid.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity Based on available data, the classification criteria are not met.

· <u>LD/LC50 values relevant for classification:</u>
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**94-36-0 dibenzoyl peroxide**

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>24.3 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

- Endocrine disrupting properties
- None of the ingredients is listed.

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**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****94-36-0 dibenzoyl peroxide**

EC50	35 mg/l (bacteria)
LC50	>1,000 mg/l (Eisenia fetida ( Regenwürmer))
EC50/48h	0.11 mg/l (daphnia magna) (OECD 202)
ErC50/72h	0.0711 mg/l (Pseudokirchneriella subcapitata)
EC10	0.001 mg/l (daphnia magna) (OECD 211)
EC50/48h	0.11 mg/l (daphnia magna)
EC50/72h	0.0711 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	0.0602 mg/l (Oncorhynchus mykiss) (OECD 203)
	2 mg/l (poecilia reticulata)

**· 12.2 Persistence and degradability**

No further relevant information available.

**· 12.3 Bioaccumulative potential**

No further relevant information available.

**· 12.4 Mobility in soil**

No further relevant information available.

**· 12.5 Results of PBT and vPvB assessment****· PBT:**

Not applicable.

**· vPvB:**

Not applicable.

**· 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**· 12.7 Other adverse effects****· Additional ecological information:****· General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

**SECTION 13: Disposal considerations****· 13.1 Waste treatment methods****· Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**· Uncleaned packaging:****· Recommendation:**

Disposal must be made according to official regulations.

**SECTION 14: Transport information****· 14.1 UN number or ID number****· ADR, IMDG, IATA**

UN3077

**· 14.2 UN proper shipping name****· ADR**

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)

**· IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), MARINE POLLUTANT

**· IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)

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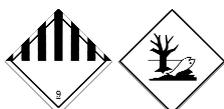
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**14.3 Transport hazard class(es)**· ADR· Class

9 (M7) Miscellaneous dangerous substances and articles.

· Label

9

· IMDG, IATA· Class

9 Miscellaneous dangerous substances and articles.

· Label

9

**14.4 Packing group**· ADR, IMDG, IATA

III

**14.5 Environmental hazards:**· Marine pollutant:

Symbol (fish and tree)

· Special marking (ADR):

Symbol (fish and tree)

· Special marking (IATA):

Symbol (fish and tree)

**14.6 Special precautions for user**· Hazard identification number (Kemler code):

Warning: Miscellaneous dangerous substances and articles.

90

· EMS Number:

F-A,S-F

· Stowage Category

A

· Stowage Code

SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· Transport/Additional information:· ADR· Limited quantities (LQ)

5 kg

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· Transport category

3

· Tunnel restriction code

(-)

· IMDG· Limited quantities (LQ)

5 kg

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· UN "Model Regulation":

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), 9, III

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

**15.2 Chemical safety**

**assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

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

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS: Laboratory

· Date of previous version: 03.09.2024

· Version number of previous version: 10

· Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
ATE: Acute toxicity estimate values  
Org. Perox. B: Organic peroxides – Type B  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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