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SECTION 1: Identification of the substance/mixture and of the company/undertaking			
<u>1.1 Product identifier</u> <u>Trade name:</u> <u>1.2 Relevant identified uses of</u>	Hardener paste for Colour Bond, 6 min		
the substance or mixture and uses advised against · Application of the substance / the	No further relevant information available.		
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: 1.4 Emergency telephone	Laboratory		
number:	Product Safety Department AKEMI chemisch technisch Tel. +49(0)911-64296-59 Reachable during the following office hours:	e Spezialfabrik GmbH	
	Monday – Thursday from 07:30 a.m. to 16:30 p.m. Friday from 07:30 a.m. to 13:30 p.m. +44 (171) 635 91 91		
	National Poison Inform. Centre Medical Toxicology Unit Avalonley Road London SE14 5ER		
Classification of the substance Classification according to Regulate GHS09 environment			
Aquatic Chronic 2 H411 Toxic to a	aquatic life with long lasting effects.		
GHS07			
Eye Irrit. 2 H319 Causes s	erious eye irritation.		
Skin Sens. 1 H317 May caus • <u>Response:</u>	se an allergic skin reaction. IF IN EYES: Rinse cautiously with water for several r 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.		
· <u>Storage:</u>	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 C	CLP regulation.	
Signal word	GHS07 GHS09		
· <u>Signal word</u>	Warning		
Hazard-determining components of labelling:	dibenzoyl peroxide	(Contd. on page 2)	

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 Hazard statements 	H319 Causes ser	rious eye irritation.
	H317 May cause	an allergic skin reaction.
	H411 Toxic to aq	uatic life with long lasting effects.
Precautionary statements	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read label before use.
	P261	Avoid breathing vapours.
	P264	Wash thoroughly after handling.
	P272	Contaminated work clothing should not be allowed out of the
		workplace.
	P273	Avoid release to the environment.
	P280	Wear protective gloves / eye protection / face protection.
	P302+P352	IF ON SKIN: Wash with plenty of water.
	P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes.
		Remove contact lenses, if present and easy to do. Continue rinsing.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P333+P313 P321	If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label).
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P391	Collect spillage.
	P501	Dispose of contents/container in accordance with local/
	-	regional/national/international regulations.
· 2.3 Other hazards		<u> </u>
Results of PBT and vPvB assessr	nent	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: 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		
Reg.nr.: 01-2119511472-50	V ·	
CAS: 9038-95-3	Polyalkylen glycol monobutylether	1-5%
	🚸 Acute Tox. 4, H302; Eye Irrit. 2, H319	
 Additional information: 	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

<u>4.1 Description of first aid measures</u> <u>General information:</u> <u>After inhalation:</u> <u>After skin contact:</u> <u>After skin contact:</u> <u>After swallowing:</u> <u>Immediately remove any clothing soiled by the product.</u> <u>Supply fresh air and to be sure call for a doctor.</u> <u>In case of unconsciousness place patient stably in side position for transportation.</u> <u>After skin contact:</u> <u>Immediately wash with water and soap and rinse thoroughly.</u> <u>After swallowing:</u> <u>If symptoms persist consult doctor.</u> (Contd. on page 3)

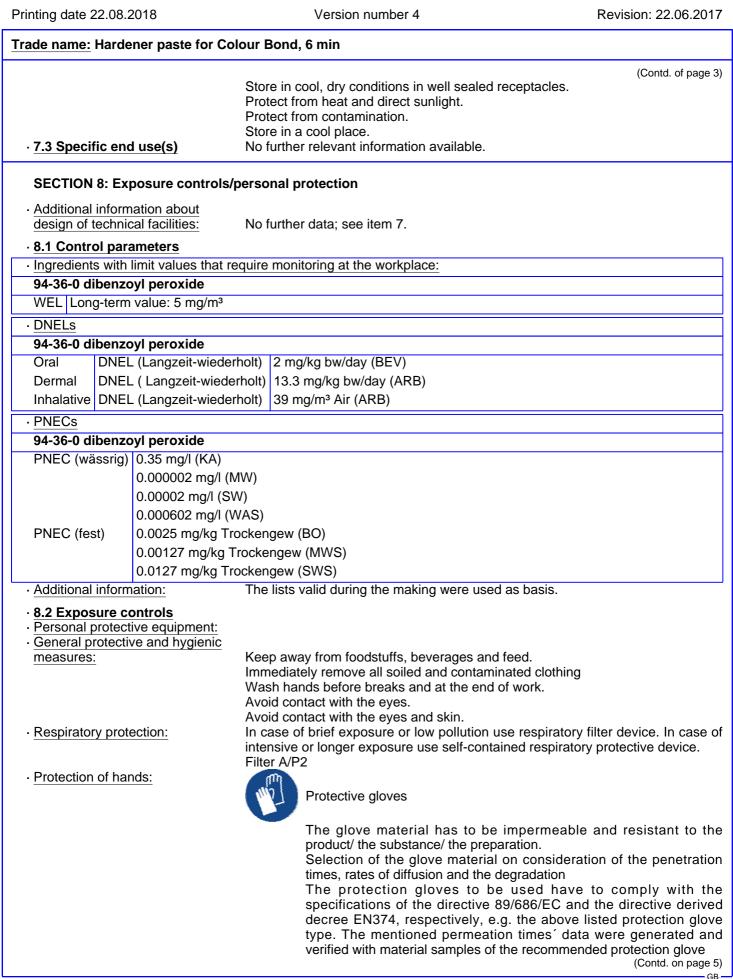


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according to 1907/2006/EC, Article 31 Printing date 22.08.2018 Version number 4 Revision: 22.06.2017 Trade name: Hardener paste for Colour Bond, 6 min (Contd. of page 2) <u>4.2 Most important symptoms</u> and effects, both acute and No further relevant information available. delayed 4.3 Indication of any immediate medical attention and special No further relevant information available. treatment needed **SECTION 5: Firefighting measures** · 5.1 Extinguishing media · Suitable extinguishing agents: CO2, 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. 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 Absorb with liquid-binding material (sand, diatomite, acid binders, universal containment and cleaning up: binders, sawdust). Ensure adequate ventilation. See Section 7 for information on safe handling. · 6.4 Reference to other sections 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. (Contd. on page 4) GB

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rade name: Hardener paste for Co	lour Bond, 6 min	
- <u>Material of gloves</u>	compliance with EN374. This recommendation refers exc sheet referenced product delivered application. In case of product of different substances or chemicals, the producer of CE-approved prot detailed information (e.g., KCL G internet: http://www.kcl.de). The selection of the suitable gloves does n also on further marks of quality and varies of As the product is a preparation of several glove material can not be calculated in advar prior to the application. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR	from manufacturer to manufacture I substances, the resistance of th
Penetration time of glove material	Neoprene gloves The exact break trough time has to be fou protective gloves and has to be observed.	und out by the manufacturer of th
Eye protection:	Tightly sealed goggles	
Body protection:	Protective work clothing	
 <u>9.1 Information on basic physic</u> <u>General Information</u> <u>Appearance:</u> <u>Form:</u> <u>Colour:</u> 	Pasty Whitish	
<u>Odour:</u> Change in condition	Specific type	
Melting point/freezing point: Initial boiling point and boiling ra	Undetermined. nge: Undetermined.	
Flash point:	Not applicable.	
Decomposition temperature:	50 °C (SADT)	
<u>Auto-ignition temperature:</u>	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion ha	azard.
Vapour pressure at 20 °C:	1 hPa	
Density at 20 °C:	1.3 g/cm ³	
<u>Solubility in / Miscibility with</u> water:	Not miscible or difficult to mix.	
• <u>Viscosity:</u> <u>Dynamic:</u> <u>Kinematic:</u>	Not determined. Not applicable. Not determined. Not applicable.	
<u>Solvent content:</u> Organic solvents:	0.0 %	
		(Contd. on page

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· 9.2 Other information	No further relevant information available.	
SECTION 10: Stability and read	tivity	
 <u>10.1 Reactivity</u> <u>10.2 Chemical stability</u> <u>Thermal decomposition /</u> conditions to be avoided: <u>10.3 Possibility of hazardous</u> reactions 	No further relevant information available. No decomposition if used according to specifications. Self accelerating decomposition above > + 60 °C.	
<u>10.4 Conditions to avoid</u> <u>10.5 Incompatible materials:</u> 10.6 Hazardous decompositior	No further relevant information available. Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-m compounds and amines).	etal
products:	Hydrocarbons, carbondioxide and -monoxid.	
SECTION 11: Toxicological info • 11.1 Information on toxicologic • Acute toxicity • LD/LC50 values relevant for clas	al effects Based on available data, the classification criteria are not m sification:	iet.
ATE (Acute Toxicity Estimates Oral LD50 20,000 mg/		
, j	χg	
94-36-0 dibenzoyl peroxide Oral LD50 >5,000 mg/ Inhalative LC50/4 h >24.3 mg/l		
 Primary irritant effect: Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation CMR effects (carcinogenity, muta) Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard 	Based on available data, the classification criteria are not m Causes serious eye irritation. May cause an allergic skin reaction. agenicity and toxicity for reproduction) Based on available data, the classification criteria are not m Based on available data, the classification criteria are not m Based on available data, the classification criteria are not m Based on available data, the classification criteria are not m Based on available data, the classification criteria are not m Based on available data, the classification criteria are not m Based on available data, the classification criteria are not m Based on available data, the classification criteria are not m	net. net. net. net. net.
SECTION 12: Ecological inform	nation	
• <u>12.1 Toxicity</u>		
• Aquatic toxicity:		
94-36-0 dibenzoyl peroxide		
EC50 35 mg/l (bacteria) LC50 >1.000 mg/l (Eisenia	fetida (Regenwürmer))	

LC50 >1,000 mg/l (Eisenia fetida (Regenwürmer))

EC50/48h 0.11 mg/l (daphnia magna)

ErC50/72h 0.0711 mg/l (Pseudokirchneriella subcapitata)

EC10 0.001 mg/l (daphnia magna)

EC50/48h 0.11 mg/l (daphnia magna)

EC50/72h 0.0711 mg/l (Pseudokirchneriella subcapitata)

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LC50/96h 0.0602 mg/l (Oncorhy		
2 mg/l (poecilia reticul	ata)	
 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.	
 Additional ecological information: General notes: 	Do not allow undiluted product or large quantities of it to reach ground water	
· General notes.	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.	
	Water hazard class 1 (German Regulation) (Self-assessment): slightly	
	hazardous for water	
 <u>12.5 Results of PBT and vPvB as</u> 	ssessment	
· PBT:	Not applicable.	
· <u>vPvB:</u>	Not applicable.	
 12.6 Other adverse effects 	No further relevant information available.	
SECTION 13: Disposal consider • <u>13.1 Waste treatment methods</u> • <u>Recommendation</u>	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 informa	tion	
· ADR, IMDG, IATA	UN3077	
 14.2 UN proper shipping name 		
· <u>ADR</u>	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	
IMPC	SOLID, N.O.S. (dibenzoyl peroxide)	
· <u>IMDG</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), MARINE POLLUTANT	
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,	
	N.O.S. (dibenzoyl peroxide)	
14.2 Transport bazard alass(as)		
14.3 Transport hazard class(es)		
· <u>ADR</u>		
· <u>Class</u> · <u>Label</u>	9 (M7) Miscellaneous dangerous substances and articles. 9	
· IMDG, IATA		
· <u>Class</u> · <u>Label</u>	9 Miscellaneous dangerous substances and articles. 9	
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 <u>14.4 Packing group</u> <u>ADR, IMDG, IATA</u> 	Ш		
 • 14.5 Environmental hazards: • Marine pollutant: • Special marking (ADR): • Special marking (IATA): 	Product contains environmentally hazardous substances: Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)		
 • 14.6 Special precautions for user • Danger code (Kemler): • EMS Number: • Stowage Category • Stowage Code 	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.		
 <u>14.7 Transport in bulk according to Anno</u> <u>Marpol and the IBC Code</u> 	ex II of Not applicable.		
Transport/Additional information:			
 ADR Limited quantities (LQ) Excepted quantities (EQ) 	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g		
Transport category	3		
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5 kg 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		

SECTION 15: Regulatory information

\cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the 	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment
application of lower-tier requirements • Qualifying quantity (tonnes) for the application of upper-tier requirements	200 t 500 t
 National regulations: 	
 Waterhazard class: VOC EU 15.2 Chemical safety 	Water hazard class 1 (Self-assessment): slightly hazardous for water. 0.0 g/l
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.

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 <u>Relevant phrases</u> 	H241 Heating may cause a fire or explosion. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	
 Department issuing SDS: Contact: 	Laboratory Dieter Zimmermann Elke Hake Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de	
 <u>Abbreviations and acronyms:</u> 	 @mail E.Hake@akemi.de ADR: Accord européen sur le transport 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 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) 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 vPVB: very Persistent and very Bioaccumulative Org. Perox. B: Organic peroxides – Type B Acute Tox. 4: Acute toxicity – Category 4 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 - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 	