

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.11.2022 Version number 13 (replaces version 12) Revision: 09.11.2022

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SECTION 1: Identification of the	substance/mixtu	re and of the company/undertakin	9
· 1.1 Product identifier · Trade name:	Hardener B-Liqu	lid	
· <u>Article number:</u> · <u>UFI:</u>	30423, 30483 CUW3-D06C-X00	0K-G2CP	
 1.2 Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the 	No further releva	nt information available.	
mixture	Hardening agent/	Curing agent	
 <u>1.3 Details of the supplier of the</u> <u>Manufacturer/Supplier</u>: 		technische Spezialfabrik GmbH	Tel. +49(0)911-642960 Fax. +49(0)911-644456 e-mail info@akemi.de
Further information obtainable from: 1.4.5 Emergency telephone	Laboratory		
[·] <u>1.4 Emergency telephone</u> <u>number:</u>	Tel. +49(0)911-64 Reachable during Monday – Thursc	epartment AKEMI chemisch technise 4296-59 9 the following office hours: lay from 07:30 a.m. to 16:30 p.m.) a.m. to 13:30 p.m.	che Spezialfabrik GmbH
SECTION 2: Hazards identificati	on		
 2.1 Classification of the substant Classification according to Regular Org. Perox. D H242 Heating may Acute Tox. 4 H302 Harmful if sw Acute Tox. 4 H332 Harmful if inh Skin Corr. 1B H314 Causes seve Eye Dam. 1 H318 Causes serior 	tion (EC) No 1272/2 cause a fire. vallowed. naled. ere skin burns and e		
 • <u>2.2 Label elements</u> • Labelling according to Regulation (EC) No 1272/2008 • Hazard pictograms 		assified and labelled according to the	e CLP regulation.
· Signal word	GHS02 GHS05 Danger	5 GHS07	
 Hazard-determining components of labelling: 	of 2-Butanone, pero		
· Hazard statements	H302+H332 Harr	ting may cause a fire. nful if swallowed or if inhaled.	
· Precautionary statements	P101	ses severe skin burns and eye dama If medical advice is needed, have hand.	
	P102 P103 P210	Keep out of reach of children. Read carefully and follow all instru Keep away from heat, hot surface	
	P220	other ignition sources. No smoking Keep away from reducing agents acids and alkalis.] .
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	P234	Keep only in original packaging.
	P260	Do not breathe mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face
		protection/hearing protection.
	P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all contaminated
		clothing. Rinse skin with water [or shower].
	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.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	P405	Store locked up.
	P410	Protect from sunlight.
	P411+P235	Store at temperatures not exceeding 25°C. Keep cool.
	P420	Store away from reducing agents.
	P501	Dispose of contents/container in accordance with local/
		regional/national/international regulations.
2.3 Other hazards		-
 Results of PBT and vPvB assess 	sment	
· PBT:	Not applicable.	
· VPVB:	Not applicable.	
· Determination of endocrine-disru	pting properties	
78-93-3 butanone		List II

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Mixture of substances listed below with nonhazardous additions.

•	Dangerous	components:	

· Dangerous components:			
CAS: 1338-23-4 EC number: 700-954-4 Reg.nr.: 01-2119514691-43	2-Butanone, peroxide	Org. Perox. D, H242 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332	25-50%
CAS: 111-46-6 EINECS: 203-872-2 Index number: 603-140-00-6 Reg.nr.: 01-2119457857-21	2,2'-oxybisethanol	Acute Tox. 4, H302	1-5%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	1-5%
· Additional information:	For the wording of the listed ha	azard phrases refer to section 16.	

SECTION 4: First aid measures

General information:	Seek immediate medical advice.
	Take affected persons out of danger area and lay down.
	Immediately remove any clothing soiled by the product.
	Symptoms of poisoning may even occur after several hours; therefore medical
	observation for at least 48 hours after the accident.
After inhalation:	Take affected persons into fresh air and keep quiet.
	In case of unconsciousness place patient stably in side position for transportation.
	Supply fresh air and to be sure call for a doctor.
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After alvin contact	Immediately rises with water	(Contd. of page
After skin contact:	Immediately rinse with water. Immediate medical treatment necessary. Failure wounds from healing.	to treat burns can preve
After eye contact:	Call a doctor immediately. Rinse opened eye for several minutes under run doctor.	ning water. Then consult
After swallowing:	Rinse out mouth and then drink plenty of water. Call for a doctor immediately. Do not induce vomiting; call for medical help immedi	ately
4.2 Most important symptoms	Drink plenty of water and provide fresh air. Call for a	
and effects, both acute and	No further relevant information available	
delayed 4.3 Indication of any immediate	No further relevant information available.	
medical attention and special treatment needed	No further relevant information available.	
SECTION 5: Firefighting measur	es	
5.1 Extinguishing media		
Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires v resistant foam.	with water spray or alcoh
For safety reasons unsuitable		
extinguishing agents: 5.2 Special hazards arising from	Water with full jet	
the substance or mixture	Formation of toxic gases is possible during heating of	or in case of fire.
	In case of fire, the following can be released: Carbon monoxide (CO)	
5.3 Advice for firefighters		
Protective equipment:	Wear self-contained respiratory protective device.	
Additional information	Do not inhale explosion gases or combustion gases.	
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately.	It must not enter the sewag
	system. Dispose of fire debris and contaminated fire fighti	ng water in accordance wi
	official regulations.	
SECTION 6: Accidental release r	neasures	
6.1 Personal precautions, protective equipment and		
emergency procedures	Keep away from ignition sources.	
	Wear protective equipment. Keep unprotected perso Ensure adequate ventilation	-
6.2 Environmental precautions:	Do not allow product to reach sewage system or any Inform respective authorities in case of seepage i system.	
	Do not allow to enter sewers/ surface or ground wate	er.
6.3 Methods and material for	Orand fragmentations l'and a state of the	
containment and cleaning up:	Send for recovery or disposal in suitable receptacles Absorb with liquid-binding material (sand, diaton binders, sawdust)	
	binders, sawdust). Use neutralising agent.	
	Dispose contaminated material as waste according t	to item 13.
6.4 Reference to other sections	Ensure adequate ventilation. See Section 7 for information on safe handling.	



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78-93-3 b	utanone
	nort-term value: 900 mg/m³, 300 ppm
Lc	ong-term value: 600 mg/m³, 200 ppm
· <u>DNELs</u>	
1338-23-4	2-Butanone, peroxide
Oral	DNEL (Langzeit-wiederholt) 0.27 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt) 1.08 mg/kg bw/day (ARB)

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			0.54 mg/kg bw/day (BEV)		
Inhalative	DNEL	. (Langzeit-wiederholt)	1.9 mg/m³ Air (ARB)		
			0.41 mg/m³ Air (BEV)		
111-46-6 2	2,2'-ox	ybisethanol			
Dermal	DNEL	. (Langzeit-wiederholt)	43 mg/kg bw/day (ARB)		
			21 mg/kg bw/day (BEV)		
Inhalative	DNEL	. (Langzeit-wiederholt)	44-60 mg/m³ Air (ARB)		
			12 mg/m³ Air (BEV)		
78-93-3 bi	utanoi	ne			
Oral	DNEL	. (Langzeit-wiederholt)	31 mg/kg bw/day (BEV)		
Dermal	DNEL	(Langzeit-wiederholt)	1,161 mg/kg bw/day (ARB)		
			412 mg/kg bw/day (BEV)		
Inhalative	DNEL	. (Langzeit-wiederholt)	600 mg/m³ Air (ARB)		
		, ,	106 mg/m³ Air (BEV)		
PNECs					
	2-But	anone, peroxide			
		1.2 mg/l (KA)			
	loong)	0.00056 mg/l (MW)			
		0.0056 mg/l (SW)			
		0.056 mg/l (WAS)			
PNEC (fes	st)	0.00231 mg/kg Trockengew (BO)			
	,,,	0.0019 mg/kg Trocker	• • • •		
		0.019 mg/kg Trockeng			
111-46-6 2	2 2'-08	ybisethanol			
		199.5 mg/l (KA)			
	loong)	1 mg/l (MW)			
		10 mg/l (SW)			
		10 mg/l (WAS)			
PNEC (fes	st)	1.53 mg/kg Trockenge	ww (BO)		
	,,,	2.09 mg/kg Trockenge			
		20.9 mg/kg Trockenge			
78-93-3 bi	utanoi				
		709 mg/l (KA)			
	isong/	55.8 mg/l (MW)			
		55.8 mg/l (SW)			
PNEC (fest)		55.8 mg/l (WAS)			
		22.5 mg/kg Trockenge	ww (BO)		
		284.7 mg/kg Trockeng			
		284.74 mg/kg Trocker			
Additional	inform		lists valid during the making were used as basis.		
			note valid daring the making were used as basis.		
8.2 Expos			further data; see item 7.		
			personal protective equipment		
		/e and hygienic			
measures:	:		not eat, drink, smoke or sniff while working.		
		Use	skin protection cream for skin protection.	(Contd. on page 6	

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		nt_No. 740, 741, 742) 30, 731, 732, 733) per CR	(Contd. of page 6
· Not suitable are gloves made of		Art_No. 720, 722, 726)	
the following materials:	Natural rubber, N Leather gloves		
· Eye/face protection	Strong material g	sealed goggles	
· Body protection:	Protective work c Use protective su	lothing it.	
SECTION 9: Physical and chem	nical properties		
 <u>9.1 Information on basic physic</u> General Information 	cal and chemical pr	operties	
· Colour: · Odour:	W	olourless eak adotermined	
 Melting point/freezing point: Boiling point or initial boiling point Flash point: 	and boiling range >	ndetermined. 80 °C ot applicable.	
 Ignition temperature: Decomposition temperature: 	5	55 °C +60 °C (SADT)	
· <u>pH</u>	N	ot determined. ot applicable	
 <u>Viscosity:</u> <u>Kinematic viscosity</u> <u>Dynamic at 20 °C:</u> 	N	ot determined. 4 mPas	
· <u>Solubility</u> · <u>water:</u>		ot miscible or difficult to mix.	
 Vapour pressure at 20 °C: Density and/or relative density 		9 hPa	
· <u>Density at 20 °C:</u> · 9.2 Other information	I.	.18 g/cm ³	
Appearance: Form: Important information on protect		luid	
 environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: 		roduct is not selfigniting. roduct does not present an explosion hazard.	
· Organic solvents:	6.	.5 %	
 Information with regard to physica Explosives 			
· Flammable gases	Void		
Aorocolo	Void		
· <u>Aerosols</u>	Void		
			(Contd. on page



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Trade name: Hardener B-Liquid (Contd. of page 7) · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Heating may cause a fire. · Corrosive to metals Void · Desensitised explosives Void

SECTION 10: Stability and reactivity

· <u>10.1 Reactivity</u>	Stable under recommended transport or storage conditions	
<u>10.2 Chemical stability</u>		
 Thermal decomposition / 		
conditions to be avoided:	Rapid decomposition by heating (e. g. direct sunlight or	
	heater).	
<u>10.3 Possibility of hazardous</u>		
<u>reactions</u>	Self accelerating decomposition at 50°C (SADT)	
	Reacts with reducing agents.	
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Version number 13 (replaces version 12) Printing date 09.11.2022 Revision: 09.11.2022 **Trade name: Hardener B-Liquid** (Contd. of page 8) Reacts with heavy metals. Reacts with amines. Reacts with acids, alkalis and oxidising agents. · 10.4 Conditions to avoid Heat, flames and other sources of ignition Rapid decomposition by dirt, rust, chemicals in particular • 10.5 Incompatible materials: concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines). 10.6 Hazardous decomposition products: Hydrocarbons, carbondioxide and -monoxid. Formic acid, acetic acid, propionic acid. Methyl ethyl ketone

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

 Acute toxicity 	Acute toxicity Harmful if swallowed or if inhaled.				
· LD/LC50 values relev	· LD/LC50 values relevant for classification:				
Oral LD50	986 mg/kg (ra	at)			
Dermal LD50	4,124 mg/kg	(rabbit)			
Inhalative LC50/4h	1.6 mg/m3 (r	at)			
1338-23-4 2-Butanoi	ne, peroxide				
Oral LD50	1,017 mg/kg	(rat)			
Dermal LD50	4,000 mg/kg	(rat)			
Inhalative LC50/4 h	1.5 mg/l (rat)				
111-46-6 2,2'-oxybis	ethanol				
Oral LD50	300-2,000 m	g/kg (rat)			
Dermal LD50	11,890 mg/kg	g (rbt)			
78-93-3 butanone					
Oral LD50	>2,193 mg/k	g (rat) (OECD 423)			
Dermal LD50	>8,000 mg/k@	g (cuniculosus)			
	>5,000 mg/k@	g (rbt) (OECD 402)			
Inhalative LC50/4 h	34 mg/l (rat)				
LC50/8h	23.5 mg/l (rat	:)			
LC50/48h	308 mg/l (dap	bhnia magna)			
Skin corrosion/irritatio		Causes severe skin burns and eye damage.			
Serious eye damage/		Causes serious eye damage.			
 Respiratory or skin se Germ cell mutagenici 		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.			
Carcinogenicity	ity	Based on available data, the classification criteria are not met.			
· Reproductive toxicity		Based on available data, the classification criteria are not met.			
· STOT-single exposur		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					
11.2 Information on	other hazard	<u>s</u>			
· Endocrine disrupting	properties				
78-93-3 butanone			List II		
			(Contd. on page 10)		



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· 13.1 Waste treatment methods

peroxides, for example hydrogen peroxide

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SECTION 12: Ecological information · 12.1 Toxicity · Aquatic toxicity: 1338-23-4 2-Butanone, peroxide EC50 48 mg/l (BES) EC50/48h 39 mg/l (daphnia magna) ErC50/72h 5.6 mg/l (Pseudokirchneriella subcapitata) EC10 12 mg/l (BES) LC50/96h 44.2 mg/l (poecilia reticulata) 111-46-6 2,2'-oxybisethanol NOEC 8,590 mg/kg (literature) 15,380 mg/kg (pimephales promelas) EC50/48h 48,900 mg/l (daphnia magna) LC50/96h 75,200 mg/l (pimephales promelas) 78-93-3 butanone EC5 1,150 mg/l (pseudomonas putida) EC0 1,150 mg/l (pseudomonas putida) (DIN 38412) IC5/7d >4,300 mg/l (scenedesmus quadricauda) EC50/48h 5,091 mg/l (daphnia magna) (OECD 202) EC50/72h 1,972 mg/l (Pseudokirchneriella subcapitata) (OECD 201) LC50/96h 3,220 mg/l (lem) 2,993 mg/l (pimephales promelas) (OECD 203) · 12.2 Persistence and No further relevant information available. degradability · 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 Not applicable. · PBT: · vPvB: Not applicable. · 12.6 Endocrine disrupting For information on endocrine disrupting properties see section 11. properties 12.7 Other adverse effects Additional ecological information: Do not allow product to reach ground water, water course or sewage system. General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water **SECTION 13: Disposal considerations**

· <u>Recomme</u>	endation Must be specially treated adhering to official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.		
· European waste catalogue			
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST		
16 09 00	oxidising substances		



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· <u>Uncleaned packaging:</u> · <u>Recommendation:</u>

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

· <u>14.1 UN number or ID number</u> · <u>ADR, IMDG, IATA</u>	UN3105		
 <u>14.2 UN proper shipping name</u> <u>ADR</u> <u>IMDG, IATA</u> 	3105 ORGANIC PEROXIDE TYPE D, LIQUID (Methylethylketoneperoxide) ORGANIC PEROXIDE TYPE D, LIQUID (Methylethylketoneperoxide)		
· <u>14.3 Transport hazard class(es)</u>			
· <u>ADR</u>			
· <u>Class</u> · Label	5.2 (P1) Organic peroxides. 5.2		
· IMDG, IATA			
· <u>Class</u> · <u>Label</u>	5.2 Organic peroxides. 5.2		
· 14.4 Packing group · ADR, IMDG, IATA	Void		
 <u>14.5 Environmental hazards:</u> <u>Marine pollutant:</u> 	No		
 <u>14.6 Special precautions for user</u> Hazard identification number (Kemler code): EMS Number: Stowage Category Stowage Code Segregation Code 	Warning: Organic peroxides. - F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.		
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.			
· Transport/Additional information:			
 <u>ADR</u> <u>Limited quantities (LQ)</u> <u>Excepted quantities (EQ)</u> Transport category 	125 ml Code: E0 Not permitted as Excepted Quantity 2		
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· Tunnel restriction code	D			
 <u>IMDG</u> <u>Limited quantities (LQ)</u> <u>Excepted quantities (EQ)</u> 	125 ml Code: E0 Not permitted as Excepted Quantity			
· <u>UN "Model Regulation":</u>	UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYLETHYLKETONEPEROXIDE), 5.2			
SECTION 15: Regulatory informa	ation			
· 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 	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES			
Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII	50 t 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 d	rug precursors			
78-93-3 butanone	3			
· Regulation (EC) No 111/2005 layin countries in drug precursors	g down rules for the monitoring of trade between the Community and third			
78-93-3 butanone	3			
· National regulations:				
 Information about limitation of use: 	Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.			
· Waterhazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.			
Substances of very high concern (SVHC) according to REACH, Article 57				
None of the ingredients is listed.	70.0 //			
· <u>VOC EU</u>	76.6 g/l (Contd. on page 13)			



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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.11.2022

Version number 13 (replaces version 12)

Revision: 09.11.2022

Trade name: Hardener B-Liquid

(Contd. of page 12) · 15.2 Chemical safety A Chemical Safety Assessment has not been carried out. assessment: **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. · Department issuing SDS: Laboratory Elke Hake · Contact: Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de · Date of previous version: 09.11.2022 · Version number of previous version: 12 · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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) DNEL: Derived No-Effect Level (RÈACH) 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 Flam. Liq. 2: Flammable liquids - Category 2 Org. Perox. D: Organic peroxides - Type C/D Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3