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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

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

1.1 Product identifier

· Trade name: Hardener B-Liquid

• <u>Article number:</u> 30423, 30483

· UFI: CUW3-D06C-X00K-G2CP

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

• <u>Manufacturer/Supplier:</u> AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960 Lechstrasse 28 Fax. +49(0)911-644456

Lechstrasse 28 D 90451 Nürnberg

· 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

Org. Perox. D H242 Heating may cause a fire.

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

#### 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.



· <u>Signal word</u> Danger

· Hazard-determining components of

labelling:2-Butanone, peroxide2,2'-oxybisethanol

· <u>Hazard statements</u> H242 Heating may cause a fire.

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

· <u>Precautionary statements</u> P101 If medical advice is needed, have product container or label at

hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P220 Keep away from reducing agents, heavy metal compounds,

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+P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water [or shower].

P305+P351+P338 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 assessment

· PBT: Not applicable. · vPvB: Not applicable.

· Determination of endocrine-disrupting 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:				
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 hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

· <u>General information:</u> 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 skin contact: Immediately rinse with water. (Contd. of page 2)

Immediate medical treatment necessary. Failure to treat burns can prevent

wounds from healing.

Call a doctor immediately. · After eye contact:

Rinse opened eye for several minutes under running water. Then consult a

doctor.

· After swallowing: Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

· 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: CO2, powder or water spray. Fight larger fires with water spray or alcohol

No further relevant information available.

resistant foam.

· 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 or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

5.3 Advice for firefighters

Wear self-contained respiratory protective device. Protective equipment:

Do not inhale explosion gases or combustion gases.

Cool endangered receptacles with water spray. · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage

system.

Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

**SECTION 6: Accidental release measures** 

6.1 Personal precautions, protective equipment and

Keep away from ignition sources. emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

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:

Send for recovery or disposal in suitable receptacles.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections See Section 7 for information on safe handling.

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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** Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Open and handle receptacle with care.

Prevent formation of aerosols.

Keep away from heat and direct sunlight. Do not refill residue into storage receptacles.

Wear suitable respiratory protective device when decanting larger quantities

without extractor facilities.

Ensure good ventilation/exhaustion at the workplace.

Restrict the quantity stored at the work place.

· Information about fire - and

explosion protection:

Protect from heat.

Protect against electrostatic charges.

Prevent impact and friction.

Use explosion-proof apparatus / fittings and spark-proof tools. Fumes can combine with air to form an explosive mixture.

Wear shoes with conductive soles.

Keep ignition sources away - Do not smoke.

#### · 7.2 Conditions for safe storage, including any incompatibilities

Storage:

· Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.

Store in a cool location.

Prevent any seepage into the ground.

· Information about storage in one

common storage facility:

Store away from reducing agents.

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.

· Storage class:

5.2

• 7.3 Specific end use(s) No further relevant information available.

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

### 8.1 Control parameters

#### 78-93-3 butanone

IOELV Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm

#### · DNELs

#### 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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				(Contd. of pa
			0.54 mg/kg bw/day (BEV)	(Ooma, or pa
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				
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				
		anone, peroxide		
PNEC (wä	issrig)	1.2 mg/l (KA)		
		0.00056 mg/l (MW)		
		0.0056 mg/l (SW)		
		0.056 mg/I (WAS)		
PNEC (fee	st)	0.00231 mg/kg Trocke	engew (BO)	
		0.0019 mg/kg Trocker	ngew (MWS)	
		0.019 mg/kg Trockeng	gew (SWS)	
111-46-6 2	2,2'-ox	ybisethanol		
PNEC (wä	issrig)	199.5 mg/l (KA)		
		1 mg/l (MW)		
		10 mg/l (SW)		
		10 mg/l (WAS)		
PNEC (fes	st)	1.53 mg/kg Trockenge	ew (BO)	
		2.09 mg/kg Trockengew (MWS)		
		20.9 mg/kg Trockenge	ew (SWS)	
78-93-3 butanone				
PNEC (wä	issrig)	709 mg/l (KA)		
		55.8 mg/l (MW)		
		55.8 mg/l (SW)		
		55.8 mg/l (WAS)		
PNEC (fes	st)	22.5 mg/kg Trockenge	ew (BO)	
		284.7 mg/kg Trockeng	gew (MWS)	
		284.74 mg/kg Trocker	agour (CMC)	

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment · General protective and hygienic

measures:

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

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Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols. 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.

Short term filter device:

Filter A/P2

• <u>Hand protection</u> Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

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 anylyses 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).



#### Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

Material of gloves

Butyl rubber, BR Nitrile rubber, NBR Chloroprene rubber, CR

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 to the application.

· Penetration time of glove material

Value for the permeation: Level  $\leq$  6, 480 min

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

Nitrile rubber, NBR

Dermatril (Art\_No. 740, 741, 742)

Camatril (KCL, Art\_No. 730, 731, 732, 733)

Chloroprene rubber, CR

Camapren (KCL, Art\_No. 720, 722, 726)

 As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

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Dermatril (KCL, Art No. 740, 741, 742) Camatril (KCL, 730, 731, 732, 733)

Chloroprene rubber, CR

Camapren (KCL, Art No. 720, 722, 726)

Not suitable are gloves made of

the following materials:

Natural rubber, NR Leather gloves Strong material gloves

· Eye/face protection

Tightly sealed goggles

 Body protection: Protective work clothing

Use protective suit.

### **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

General Information

Colour: Colourless Odour: weak

 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling range >80 °C

Flash point: Not applicable.

555 °C · Ignition temperature:

> +60 °C (SADT) Decomposition temperature: ·рН

Not determined. Not applicable

Viscosity:

Kinematic viscosity Not determined.

· Dynamic at 20 °C: 14 mPas

Solubility

water: Not miscible or difficult to mix.

· Vapour pressure at 20 °C: 1.9 hPa

Density and/or relative density

 Density at 20 °C: 1.18 g/cm<sup>3</sup>

9.2 Other information

Appearance:

Fluid · Form:

· Important information on protection of health and

environment, and on safety.

Product is not selfigniting. Auto-ignition temperature:

· Explosive properties: Product does not present an explosion hazard.

· Solvent content:

Organic solvents: 6.5 %

· Information with regard to physical hazard classes

**Explosives** 

Void

· Flammable gases

Void

Aerosols

Void

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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**

10.1 Reactivity
 Stable under recommended transport or storage conditions

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

conditions to be avoided: Rapid decomposition by heating (e. g. direct sunlight or

heater).

· 10.3 Possibility of hazardous

<u>reactions</u> Self accelerating decomposition at 50°C (SADT)

Reacts with reducing agents.

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· 10.4 Conditions to avoid

Reacts with heavy metals.

(Contd. of page 8)

Reacts with amines.

Reacts with acids, alkalis and oxidising agents. Heat, flames and other sources of ignition

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.

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

Harmful if swallowed or if inhaled. Acute toxicity

_	-		
ſ	LD/LC50 v	/alues relev	vant for classification:
	Oral	LD50	986 mg/kg (rat)
	Dermal	LD50	4,124 mg/kg (rabbit)
	Inhalative	LC50/4h	1.6 mg/m3 (rat)

1338-23-4	1338-23-4 2-Butanone, 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	111-46-6 2,2'-oxybisethanol		
Oral	LD50	300-2,000 mg/kg (rat)	
Dermal	LD50	11,890 mg/kg (rbt)	
78-93-3 b	78-93-3 butanone		
Oral	LD50	>2,193 mg/kg (rat) (OECD 423)	
Dermal	LD50	>8,000 mg/kg (cuniculosus)	
		>5,000 mg/kg (rbt) (OECD 402)	

LC50/48h 308 mg/l (daphnia magna) Skin corrosion/irritation Causes severe skin burns and eye damage.

· Serious eye damage/irritation Causes serious eye damage.

Based on available data, the classification criteria are not met. · Respiratory or skin sensitisation · Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. · Carcinogenicity · 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

Inhalative LC50/4 h 34 mg/l (rat)

LC50/8h | 23.5 mg/l (rat)

· Endocrine disrupting properties

78-93-3 butanone

List II

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#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

· Aquatic tox	· <u>Aquatic toxicity:</u>		
1338-23-4	1338-23-4 2-Butanone, peroxide		
EC50 48 mg/I (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 bu	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

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

12.6 Endocrine disrupting

properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous

for water

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation Must be specially treated adhering to official regulations.

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

reach sewage system.

-1			
European waste catalogue			
16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST		WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 09 00 oxidising substances		oxidising substances	
	16 09 03*	peroxides, for example hydrogen peroxide	
-1		(Contd. on none 11)	

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Uncleaned packaging:

Recommendation: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

#### **SECTION 14: Transport information**

14.1 UN number or ID number

· ADR, IMDG, IATA	UN3105
14.2 UN proper shipping name	
ADR	3105 ORGANIC PEROXIDE TYPE D, LIQUID
	(Methylethylketoneperoxide)
· IMDG, IATA	ORGANIC PEROXIDE TYPE D, LIQUID
	(Methylethylketopeperoxide)

#### 14.3 Transport hazard class(es)

· ADR



· <u>Class</u> 5.2 (P1) Organic peroxides. Label 5.2

· IMDG, IATA



· Class · Label 5.2 Organic peroxides. 5.2

14.4 Packing group

· ADR, IMDG, IATA Void

14.5 Environmental hazards:

· Marine pollutant:

• 14.6 Special precautions for user Warning: Organic peroxides.

Hazard identification number (Kemler code):

· EMS Number: F-J,S-R Stowage Category D

Stowage Code
 Surge Segregation Code
 Segregation Code
 Surge Su

SG72 See 7.2.6.3.2.

· 14.7 Maritime transport in bulk according to IMO

<u>instruments</u> Not applicable.

Transport/Additional information:

• <u>ADR</u>

Limited quantities (LQ)
 Excepted quantities (EQ)
 125 ml
 Code: E0

Not permitted as Excepted Quantity

Transport category 2

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· Tunnel restriction code	D		
· IMDG     · Limited quantities (LQ)     · Excepted quantities (EQ)	125 ml Code: E0 Not permitted as Excepted Quantity		
· UN "Model Regulation":	UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYLETHYLKETONEPEROXIDE), 5.2		

#### **SECTION 15: Regulatory information**

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

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances -

ANNEX I

· Seveso category P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC

**PEROXIDES** 

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 50 t

Qualifying quantity (tonnes) for the

application of upper-tier

requirements 200 t

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

• 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

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

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.

· <u>VOC EU</u> 76.6 g/l

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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

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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.

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Date of previous version: 09.11.2022

Version number of previous version:

· 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

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