KASCHNI **Denta**

Version number 1 Revision: 03.05.2017 Printing date 03.05.2017 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Die Lac - Color mixtures · Article number: according to Catalog · 1.2 Relevant identified uses of the substance or mixture and uses advised against · Sector of Use SU20 Health services • Environmental release category ERC2 Formulation into mixture · Application of the substance / the mixture Dental material · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Kentzler-Kaschner Dental GmbH Mühlgraben 36 D-73479 Ellwangen Tel: +49/7961/90730 Fax: +49/7961/52031 E-Mail: info@kkd-topdent.de · Further information obtainable from: During normal business hours Monday-Thursday 08:30 - 12:30 and 13:00 - 16:30 CET Friday 08:30 - 12:30 and 13:00 - 15:00 CET • 1.4 Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Liq. 2 H225 Highly flammable liquid and vapour. GHS07 Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labelling: butanone ethyl acetate · Hazard statements H225 Highly flammable liquid and vapour. (Contd. on page 2)

Printing date 03	.05.2017	Version number 1	Revision: 03.05.2017		
Trade name: Die Lac - Color mixtures					
			(Contd. of page 1)		
H319 Cause	es serious eye irritatio	<i>on.</i>			
H336 May c	cause drowsiness or a	lizziness.			
· Precautiona	iry statements				
P101	If medical ad	lvice is needed, have product container or l	label at hand.		
P102		reach of children.			
P103	Read label b				
P210	Keep away f smoking.	rom heat, hot surfaces, sparks, open flam	es and other ignition sources. No		
P241	Use explosio	n-proof electrical/ventilating/lighting equip	pment.		
P303+P361		(or hair): Take off immediately all conta			
P305+P351		Rinse cautiously with water for several needs to be added as to be continue rinsing.	ninutes. Remove contact lenses, if		
P405	Store locked	up.			
P501	Dispose of c regulations.	ontents/container in accordance with loca	al/regional/national/international		
· Additional i	nformation:				
Contains dil	benzoyl peroxide. Ma	y produce an allergic reaction.			
· 2.3 Other ho	azards				
· Results of P	BT and vPvB assess	ment			
• PBT: Not ap	oplicable.				
· vPvB: Not a	pplicable.				

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Dental material

• Dangerous compone	nts:	
CAS: 78-93-3	butanone	55-70%
EINECS: 201-159-0	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
	ethyl acetate	10-20%
EINECS: 205-500-4	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
	dibenzoyl peroxide	<0.1%
EINECS: 202-327-6	🤣 🚯 Örg. Perox. B, H241; 🚯 Eye Irrit. 2, H319; Skin Sens. 1, H317	
· Additional informati	on•	

Additional information: Addition of different dyes

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:

Take affected persons out of danger area and lay down. Do not leave affected persons unattended. Take affected persons out into the fresh air.

• After inhalation: Take affected persons into fresh air and keep quiet.

· After skin contact: If skin irritation continues, consult a doctor.

· After eye contact: Rinse opened eye for several minutes under running water.

• After swallowing: Inform doctor. Do not give milk or fatty oils.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3) - GB -



Version number 1

Revision: 03.05.2017

Trade name: Die Lac - Color mixtures

Printing date 03.05.2017

· 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 resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture Carbon dioxide (CO2)
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information

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

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: 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).
- · 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 No special precautions are necessary if used correctly.

- · Information about fire and explosion protection:
- Do not spray onto a naked flame or any incandescent material.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: None.
- · Storage class: Storage group: 3A
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

78-93-3 butanone

WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

(Contd. on page 4)



(Contd. of page 2)

Printing date 03.05.2017

KENTZLEF KASCHNEF **DENTAL**

Version number 1

Revision: 03.05.2017

Trade name: Die Lac - Color mixtures

141-78	B-6 ethyl acetate (Contd. of page
	Short-term value: 400 ppm
	Long-term value: 200 ppm
	lients with biological limit values:
-	3 butanone
BMGV	7 70 μmol/L
DinOv	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one
· Additio	onal information: The lists valid during the making were used as basis.
· 8.2 Ext	posure controls
	al protective equipment:
	al protective and hygienic measures: Wash hands before breaks and at the end of work.
	atory protection:
	atory protection EN 143
Particl	le filter P2
In case	e of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposi
	f-contained respiratory protective device.
	tion of hands:
	ove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	ion of the glove material on consideration of the penetration times, rates of diffusion and a
degrad	
	ial of gloves
	ubber, BR
	carbon rubber (Viton)
	mended material thickness:
	autschuk: 0,50 mm +/- 0,10 mm
	autschuk: 0,75 mm +/- 0,10 mm
	lection of the suitable gloves does not only depend on the material, but also on further marks of quarters for the superfection of the superfectio
	uries from manufacturer to manufacturer. As the product is a preparation of several substances, it
applice	nce of the glove material can not be calculated in advance and has therefore to be checked prior to a
	ation time of glove material
	DGUV 212-007
	ation (Fluorkautschuk): + Level 6 (> 240 min)
	ation (Butykautschuk): + Level 6 (> 480 min)
	act break through time has to be found out by the manufacturer of the protective gloves and has to
observ	
	termined penetration times according to EN 374 part III are not performed under practical conditio
	ore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
	e permanent contact gloves made of the following materials are suitable:
	ocarbon rubber (Viton)
Butyl r	ubber, BR
· Eye pr	otection: Goggles recommended during refilling
SECT	TION 9: Physical and chemical properties
SECI	

- · General Information
- · Appearance:
- Form:

Fluid

(Contd. on page 5)

GB

inting date 03.05.2017	Version number 1	Revision: 03.05.20	
ade name: Die Lac - Color mixtures			
		(Contd. of page	
Colour:	Various colours		
· Odour:	Recognisable		
· Odour threshold:	Not determined.		
· pH-value:	Not determined.		
· Change in condition			
Melting point/freezing point:	Undetermined.		
Initial boiling point and boiling range	e: 77 °C		
· Flash point:	-4 °C		
· Flammability (solid, gas):	Not applicable.		
· Ignition temperature:	460 °C		
· Decomposition temperature:	Not determined.		
• Auto-ignition temperature:	Product is not selfigniting.		
· Explosive properties:	Product is not explosive. Howe vapour mixtures are possible.	ever, formation of explosive ai	
· Explosion limits:			
Lower:	1.8 Vol %		
Upper:	11.5 Vol %		
· Vapour pressure at 20 °C:	105 hPa		
· Density at 20 °C:	0.87 g/cm ³		
· Relative density	Not determined.		
· Vapour density	Not determined.		
· Evaporation rate	Not determined.		
· Solubility in / Miscibility with			
water:	Not miscible or difficult to mix.		
· Partition coefficient: n-octanol/water:	Not determined.		
· Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
· Solvent content:			
Organic solvents:	100.0 %		
Solids content:	0.5 %		
• 9.2 Other information	No further relevant information a	wailable.	

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 No dangerous reactions known.

· 10.4 Conditions to avoid Open fire, hot surfaces, high temperatures

· 10.5 Incompatible materials: oxidants, acids, bases

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 6)

Printing date 03.05.2017

Version number 1

Revision: 03.05.2017

Trade name: Die Lac - Color mixtures

(Contd. of page 5)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

78-93-3 butanone

Oral LD50 3300 mg/kg (Ratte)

Dermal LD50 5000 mg/kg (Kaninchen)

- · 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 Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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
- May cause drowsiness or dizziness.
- · 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.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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.

· European waste catalogue

07 07 99 wastes not otherwise specified

(Contd. on page 7)



Version number 1

Revision: 03.05.2017

Trade name: Die Lac - Color mixtures

(Contd. of page 6)

GB

· Uncleaned packaging:

Printing date 03.05.2017

• *Recommendation:* Disposal must be made according to official regulations.

SECTION 14: Transport informat	
14.1 UN-Number ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S.
IMDG	FLAMMABLE LIQUID, N.O.S. (ETHYLMETHYLKETON)
IATA	(METHYLETHYLKETONE), ETHYLACETATE) FLAMMABLE LIQUID, N.O.S.(ETHYLMETHYLKETON
	(METHYLETHYLKETONE), ETHYLACETATE)
14.3 Transport hazard class(es)	
ADR	
3	
Class	3 Flammable liquids.
IMDG, IATA	
3	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
EMS Number:	F-E, <u>S-E</u>
Stowage Category	В
14.7 Transport in bulk according to Anne	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	IL Coder E2
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 50 ml Maximum net quantity per outer packaging: 500 ml
IMDG	······································
Limited quantities (LQ)	1L



Revision: 03.05.2017

(Contd. of page 7)

Trade name: Die Lac - Color mixtures

Printing date 03.05.2017

· Excepted quantities (EQ)

Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II

SECTION 15: Regulatory information

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

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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.

· Relevant phrases

H225 Highly flammable liquid and vapour.
H241 Heating may cause a fire or explosion.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

• Department issuing SDS: LOGAR Günther Hasel e.K. Baden-Airpark, Airport Boulevard B 210 D-77836 Rheinmünster Tel: +49(0)7229-1868-163 Fax: +49(0)7229-1868-165

- · Contact: info@logar.de
- Abbreviations and acronyms:

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 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids Category 2 Org. Perox. B: Organic peroxides – Type B
- *Eye Irrit. 2: Serious eye damage/eye irritation Category 2*
- Skin Sens. 1: Skin sensitisation Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3



Version number 1

[·] Directive 2012/18/EU