# SAFETY DATA SHEET (EC 1907/2006) Biodent C+B, Liquid K

 Version:
 3.10 / GB

 Revision date:
 13.11.2017

 Issue date:
 14.02.2003

 replaces version:
 3.9

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Material no. Specification VA-Nr

141743 01906661



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

# 1.1. Product identifier

Trade name	Biodent C+B, Liquid K
REACH Registration No .:	if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

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

Company

DeguDent GmbH Postfach 1364 D-63403 Hanau

Telephone	+49 (0)6181/59-5576
Telefax	+49 (0)6181/59-5879
Email address	SDB.Degudent-DE@dentsplysirona.com

# 1.4. Emergency telephone number

**Emergency information** 

+49 (0)6181/59-50 (This telephone number is available during office hours only.)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids	Category 2	H225
Skin corrosion/irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Specific Target Organ Toxicity - Single exposure (inhalation)	Category 3	H335

# 2.2. Label elements

# Labelling as per (EU) 1272/2008

Statutory basis

EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI

# hazard-defining component(s) (GHS)

• methyl methacrylate Hazard pictograms



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Signal word	Danger			
Hazard statement	H315 - Cause H317 - May c	r flammable liquid and vap es skin irritation. ause an allergic skin reac ause respiratory irritation.	tion.	
Precautionary statement: Prevention	P260 - Do no	protective gloves/ eye pro t breathe dust/ fume/ gas/ away from heat, hot surfac smoking.	mist/ vapours/ spra	у.
Precautionary statement: Storage	P403 + P233	- Store in a well-ventilated	d place. Keep conta	iner tightly closed.
Precautionary statement: Disposal	P501 - Dispo	se of contents/container ir	accordance with lo	cal regulation.

# 2.3. Other hazards

When heated, formation of explosive vapour/air mixtures., Danger of bursting of closed systems to vigorous exothermic polymerization. Avoid uncontrolled polymerization. A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

-

# 3.2. Mixtures

# Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• methyl r	nethacrylate		> 60%		
Skin Sensit	ion/irritation	EC-No. - Single exposure	201-297-1 (inhalation)	Category 2 Category 2 Category 1 Category 3	H225 H315 H317 H335
Tetrame	thylene dimetha	acrylate	< 30%		
CAS-No.	2082-81-7	EC-No.	218-218-1		
• 7,7,9 (or	7,9,9)-trimethyl bismethacryla	• •	l-dioxa-5,12-diaza-he < 20%	exadecane-1,16-diyl-	
CAS-No.	72869-86-4	EC-No.	276-957-5		

Texts of H phrases, see in Chapter 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

Take off all contaminated clothing immediately. Inhalation

Move victims into fresh air. Obtain medical attention.

#### Skin contact

Wash off immediately with soap and plenty of water. Obtain medical attention.

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# Eve contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 5 minutes. Consult an ophthalmologist.

### Ingestion

Do NOT induce vomiting. Have the mouth rinsed with water. Have patient drink plenty of water in small sips. Obtain medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

### **Symptoms**

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not beallowed

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:	quenching powder Carbon dioxide (CO2) Alcohol-resistant foam
Unsuitable extinguishing media:	Water

#### 5.2. Special hazards arising from the substance or mixture

In case of combustion or decomposition of the product, the fumes produced lead to irritations or inflammations of the respiratory tract. When heated, formation of explosive vapour/air mixtures.

#### 5.3. Advice for firefighters

In case of fire cool containers or take them to a safe place. Use water spray to cool unopened containers. In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

# **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures Keep unauthorized persons away. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

#### 6.2. **Environmental precautions** Prevent substance from entering soil, natural bodies of water and sewer systems., Avoid penetration into drainage system or in rooms situated at a lower level because of danger of explosion.

#### 6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Absorb with liquid-binding material, e.g. inert absorbent, sand, universal binding agents. Pick up mechanically with a suitable device and collect in a suitable container.

#### Additional advice

Ensure explosion proofness. Dispose of contaminated material as a waste in a correct manner.

#### 6.4. **Reference to other sections**

Wear personal protective equipment; see section 8. Disposal considerations; see section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

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Always close container tightly after removal of product. Avoid light effect heat sun rays. Vapors are heavier than air. Only fill up to 90 % of the container as air is required to stabilize.

# 7.2. Conditions for safe storage, including any incompatibilities

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

product is highly flammable.

Vapours are heavier than air and may spread along floors.

Formation of flammable or explosive vapour/air mixtures possible. Danger of explosion Explosion-proof installations required.

Take precautionary measures against static discharges.

# Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Ensure there is good room ventilation.

# German storage class

3 - Flammable liquids

# 7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

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

# 8.1. Control parameters

methyl metha	crylate		
CAS-No. Control parameters	80-62-6 100 ppm 416 mg/m3	EC-No.	201-297-1 Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	50 ppm 208 mg/m3		Time Weighted Average (TWA):(EH40 WEL)

# 8.2. Exposure controls

# Engineering measures

Ensure suitable suction/aeration at the work place and with operational machinery.

# Personal protective equipment

# Respiratory protection

If workplace exposure limit is exceeded apply Respirator with brown A-type filter.

# Hand protection

Wear protective gloves made of the following materials: solvent-resistant material.

Glove material butyl-rubber

Material thickness 0.5 mm Break through time 60 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

The suitability for a specific workplace should be discussed with the producers of the protective gloves., The exact break through time can be obtained from the protective glove producer and this has to be observed.

Preventive skin protection, Use barrier cream regularly.

# Eye/face protection

goggles

# Skin and body protection

Immediately change moistened and saturated work clothes., Apply adequate skin protection agents before handling the product. Assure skin cleaning and skin care after work. Preventive skin protection is recommended.

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# Hygiene measures

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work., If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used., Avoid contact with skin and eyes., After contact with skin, wash immediately with plenty of water., If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

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

# 9.1. Information on basic physical and chemical properties

Appearance Form Colour	liquid colourless
Odour	ester-like
Odour threshold:	no data available
рН	not applicable
Melting point/range	-48.2 °C tested substance: methyl methacrylate
Boiling point/range	100.3 °C (1013 hPa) Method: DIN 51 751 tested substance: methyl methacrylate
Flash point	10 °C Method: DIN 51 755 tested substance: methyl methacrylate
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Lower explosion limit	2.1 %(V)
	tested substance: methyl methacrylate
Upper explosion limit	12.5 %(V) tested substance: methyl methacrylate
Vapour pressure	38.7 hPa (20 °C) tested substance: methyl methacrylate
Density	0.94 g/cm3 (20 °C) Method: DIN 51757 tested substance: methyl methacrylate
Water solubility	15.9 g_l (20 °C) tested substance: methyl methacrylate

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	Partition coefficient: n- octanol/water	tes	W: 1 sted substa ethyl metha				
	Autoinflammability	Nc	ot capable o	f spontaneous com	bustion or heating.		
	Thermal decomposition	n no	data availa	able			
	Viscosity, dynamic	Me	63 mPa.s( hthod: E sted substate hthyl metha	Brookfield method nce:			
	Explosiveness	Va	pours can f	form explosive mixt	ures with air.		
	Oxidizing properties	no	data availa	able			
ə.2.	Other informatior	1					
	Ignition temperature	Me		DIN 51 794 nce:, methyl metha	crylate		
	Other information	Nc	further phy	vsicochemical data	were determined.		
SEC	ΓΙΟΝ 10: Stability a	nd reactiv	ity				
10.1.	<b>Reactivity</b> Vapours may form	explosive r	nixture with	n air.			
10.2.	Chemical stability Stable under recommended storage conditions.						
10.3.	<b>Possibility of haz</b> Possibility of hazardou reactions	<b>ardous rea</b> s Da	nctions nger of burs		ems to vigorous exotl d polymerization.	nermic	
10.4.	Conditions to avo Avoid exposure to		ht, Protect	from heat sources	of ignition.		
10.5.	<b>Incompatible materials</b> Product polymerizes on contact with radical generating substances such as peroxides, azo compounds, heavy metal compounds, solutions.						
10.6.	<ul> <li>Hazardous decomposition products</li> <li>Heating can release vapours which can be ignited.</li> </ul>						

Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401 Test substance: methyl methacrylate literature	Method: OECD Test Guideline 40 Test substance: methyl methacrylate	)1
Acute inhalation toxicity	LC50 Rat: 29.8 mg/l / 4 h Test substance: methyl methacrylate (literature value)	Test substance: methyl methacrylate	

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Acute dermal toxicit	Te	D50 Rabbit: > st substance: erature		ng/kg methacryla	te	
Skin irritation	Те	itating st substance: erature	methyl	methacryla	te	
Eye irritation	Те	ightly irritating est substance: erature		methacryla	te	
Sensitization	Te	ay cause sen est substance: erature		n by skin cc methacryla		
Repeated dose toxic	Te N( ta Te lit	halative Rat esting period: DAEL: rget organ/effect: est substance: erature	i	2 Jahre 25 mg/kg irritative effe methyl meth	ects, skin lining hacrylate	jS
	Te NO Te	ral Rat esting period: DAEL: est substance: rinking water a	:	2 Jahre 2000 mg/kg methyl metl , no therapy		s, literature
Assessment of STO exposure	T single no	o data availab	ole			
Assessment of STO exposure		o data availab				
Risk of aspiration to	xicity no	o data availab	ble			
Gentoxicity in vitro	Te	ositive and ne est substance: erature		methacryla	te	
Gentoxicity in vivo	Те	o evidence of est substance: erature		nic effects methacryla	te	
Mutagenicity assess	sment in	vivo: no evid	lence of	mutagenic o	effects	
carcinogenicity asse		evidence the ethyl methac		r may be ca	aused, literatur	e., tested substance:,
Toxicity to reproduc	tion no	o data availab	ble			
teratogenicity asses		o evidence of ethacrylate	teratoge	enic propert	ies, tested sub	stance:, methyl

# **SECTION 12: Ecological information**

12.1. Toxicity			
Toxicity to fish	LC50 Lepomis	macrochirus:	191 mg/l / 96 h
	Test substance:	methyl metha	acrylate

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	literature					
	Oncorhynchu	s mykiss:  > 79 mg/	/ 96 h			
	Test substance:	methyl methacryl				
	Method: literature	OECD 203				
Toxicity in aquatic	EC50 Daphni	a magna: 68 mg/l ,	′ 48 h			
invertebrates	Test substance:	methyl methacryl	ate			
	Method: (literature valu	OECD 202 ue)				
	EC50 Daphni	EC50 Daphnia magna: 49 mg/l / 21 d				
	Test substance:	methyl methacryl	ate			
	Method: (literature valu	OECD 202 part 2 ue)				
Toxicity to algae	EC50 selenas	strum capricornutum	: 170 mg/l / 96 h			
	Test substance:	methyl methacryl	ate			
	Method: literature	OECD 201				
Toxicity to bacteria	EC0 Pseudon	nonas putida: 100 r	ng/l			
	Test substance: literature	methyl methacryl	ate			
2.2. Persistence and dec	gradability					
Biodegradability	Exposure time:	14 Tage				
	Result:	-	iodegradable.			
	Test substance:	methyl methacryl	-			
	Method:	OECD 301 C				

# 12.3. Bioaccumulative potential

Bioaccumulation

Significant bioaccumulation need not be expected.

**12.4.** Mobility in soil
 If the product penetrates the soil it will become mobile and might pollute the groundwater.

# 12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

# **12.6.** Other adverse effects Further Information

Introduction into soil, natural water bodies or sewerage must be prevented.

# **SECTION 13: Disposal considerations**

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3.1.	Waste treatmer	nt methods					
	Product						
	Disposal accord	ding to local authority	regulations.				
	Uncleaned pace Disposal accore	<b>:kaging</b> ding to local authority	regulations.				
ECT	ION 14: Transpo	ort information					
4.1.	<b>sport on land (Al</b> UN number: UN proper shipp	DR/RID/GGVSEB)	UN 124 METHY SOLUT	L METHA		ER, STABILIZED	
	Transport hazar	d class(es):	3				
	Packing group: Environmental h	azards:	II 				
	Special precauti ADR: Tunn ADR: Meas §35,	ons for user: el Restriction Code: sures as 2.2.3.2.2 AE paragraph 1 GGVSE	ÒR/RÍD/ADN h B			ted materials regulation	
		sures as 2.2.3.2.2 AE			applied.		
	UN number:	sport (ADN/GGVSE	UN 124	•			
	UN proper shipp	-	METHY SOLUT		CRYLATE MONOM	ER, STABILIZED	
	Transport hazar Packing group:	d class(es):	3 				
1.5.	Environmental h						
4.6.	Special precauti Measures as 2.2	ons for user: 2.3.2.2 ADR/RID/ADI	Yes N have been a	applied.			
	ansport ICAO-TI	/IATA-DGR					
	UN number: UN proper shipp	ing name:	UN 124 Methyl		te monomer, stabiliz	red solution	
	Transport hazar	0	3	methalonyha			
	Packing group: Environmental h	ozordoj	II				
	Special precauti	ons for user:	Yes				
	Regu IATA-P: FOR	USA ONLY: When s Ilation! USA ONLY: When s Ilation!					
ea t	-	Code/GGVSee (Gern	nany)				
1.1.	UN number: UN proper shipp		UN 124	L METHA	CRYLATE MONOM	ER, STABILIZED	
1.3.	Transport hazar	d class(es):	3				
1.4.	Packing group:		II				
	Environmental h Special precauti		 Yes				
	EmS:		F-E,S-E		by or via LICA set	of the Denertation	
	Clear of living ql	uarters., FOR USA O	ז ∟ז. vvnen S	mpping in,	by or via USA note		
	Quantity-Regula	tion!					

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# **SECTION 15: Regulatory information**

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

#### National legislation employment restriction

Note employment restrictions for pregnant and lactating women., Note employment restrictions for minors.

### 15.2. Chemical safety assessment

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulatione is required for this product.

### **SECTION 16: Other information**

Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure	
Flam. Liq., 2 , H225		
Skin Corr./Skin Irrit., 2, H315		
Skin.sens., 1 , H317		
STOT SE, 3 , H335		

#### Relevant H phrases from chapter 3

Highly flammable liquid and vapour. Causes skin irritation.
May cause an allergic skin reaction. May cause respiratory irritation.

### **Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

### Legend

ĂDR	European Agreement concerning the International Carriage of Dangerous Goods by
	Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
C.C.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level

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DNEL EINECS EC50 GefStoffV GGVSEB	half maximal effect German Ordinance	y of Existing Commerci	nces			
GGVSee GLP GMO IATA ICAO IMDG ISO LOAEL LOEL NOAEL NOEC NOEL OEL PBT PEC PNEC REACH RID STOT SVHC TA TPR TRGS	Good Laboratory F Genetic Modified C International Air Tr International Civil / International Mariti International Mariti International Organ Lowest observed a Lowest observed a Lowest observed adve no observed adve no observed adve no observed effect open cup Organisation for E Occupational Expo Persistent, bioaccu Predicted effect co Predicted no effect REACH registratio Convention concel Specific Target Or Substances of Ver Technical Instructi Third Party Repres	Drganism ansport Association Aviation Organization ime Dangerous Goods nization For Standardiza adverse effect level effect level rse effect level concentration a level concentration t concentration t concentration n ming International Carri- gan Toxicity y High Concern ons	ation nd Development age by Rail	S		
VCI vPvB VOC VwVwS WGK WHO	very persistent, ve volatile organic co	ative Regulation on the Hazard Classes ss	Classification of S	ubstances Hazardous to		