

**SAFETY DATA SHEET (EC 1907/2006)****Biodent C+B, Liquid S**

Version:	<b>3.10 / GB</b>	Material no.	<b>0D08201S</b>
Revision date:	<b>13.11.2017</b>	Specification	<b>141761</b>
Issue date:	14.02.2003	VA-Nr	<b>01779052</b>
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	Biodent C+B, Liquid S
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.
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**1.3. Details of the supplier of the safety data sheet**

Company	DeguDent GmbH Postfach 1364 D-63403 Hanau
Telephone	+49 (0)6181/59-5767
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.)
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**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 1B	H317
Serious eye damage/eye irritation	Category 2	H319
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
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**hazard-defining component(s) (GHS)**

- methyl methacrylate
  - tetrahydrofurfuryl methacrylate
- Hazard pictograms



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Signal word	Danger
Hazard statement	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.
Precautionary statement: Prevention	P280 - Wear protective gloves/ eye protection/ face protection. P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary statement: Storage	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Precautionary statement: Disposal	P501 - Dispose of contents/container in accordance with local 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**

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**3.2. Mixtures**

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

<b>• methyl methacrylate</b>		<b>&lt; 50%</b>			
CAS-No.	80-62-6	EC-No.	201-297-1		
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
<b>• tetrahydrofurfuryl methacrylate</b>		<b>&lt; 40%</b>			
CAS-No.	2455-24-5	EC-No.	219-529-5		
Eye irritation				Category 2	H319
Specific target organ toxicity - single exposure				Category 3	H335
Skin irritation				Category 2	H315
<b>• 2,2'-Ethylenedioxydiethyl dimethacrylate</b>		<b>&lt; 30%</b>			
CAS-No.	109-16-0	EC-No.	203-652-6		
Skin Sensitisation				Category 1B	H317

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.

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### Inhalation

Move victims into fresh air.  
Obtain medical attention.

### Skin contact

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

### Eye 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 be allowed.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: quenching powder  
Carbon dioxide (CO<sub>2</sub>)  
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.

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## 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

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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

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 methacrylate			
CAS-No.	80-62-6	EC-No.	201-297-1
Control parameters	100 ppm 416 mg/m <sup>3</sup>		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	50 ppm 208 mg/m <sup>3</sup>		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.

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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.

**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	liquid
Colour	colourless

Odour	ester-like
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Odour threshold:	no data available
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pH	no data available
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Melting point/range	-48.2 °C tested substance: methyl methacrylate
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Boiling point/range	100.3 °C (1013 hPa) Method: DIN 51 751 tested substance: methyl methacrylate
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Flash point	10 °C Method: DIN 51 755 tested substance: methyl methacrylate
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Evaporation rate	no data available
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Flammability (solid, gas)	no data available
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Lower explosion limit	2.1 %(V)  tested substance: methyl methacrylate
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Upper explosion limit	12.5 %(V) tested substance: methyl methacrylate
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Vapour pressure	38.7 hPa (20 °C) tested substance: methyl methacrylate
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Density	0.94 g/cm <sup>3</sup> (20 °C) Method: DIN 51757 tested substance: methyl methacrylate
Water solubility	15.9 g/l (20 °C) tested substance: methyl methacrylate
Partition coefficient: n-octanol/water	POW: 1.38 tested substance: methyl methacrylate
Autoinflammability	Not capable of spontaneous combustion or heating.
Thermal decomposition	no data available
Viscosity, dynamic	0.63 mPa.s (20 °C) Method: Brookfield method tested substance: methyl methacrylate
Explosiveness	Vapours can form explosive mixtures with air.
Oxidizing properties	no data available

### 9.2. Other information

Ignition temperature	430 °C Method: DIN 51 794 tested substance: methyl methacrylate
Other information	No further physicochemical data were determined.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapours may form explosive mixture with air.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Danger of bursting of closed systems to vigorous exothermic polymerization. Avoid uncontrolled polymerization.
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### 10.4. Conditions to avoid

Avoid exposure to light /sunlight, Protect from heat sources of ignition.

### 10.5. Incompatible materials

Product polymerizes on contact with radical generating substances such as peroxides, azo compounds, heavy metal compounds, solutions.

### 10.6. Hazardous decomposition products

Heating can release vapours which can be ignited.

## SECTION 11: Toxicological information

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**11.1. Information on toxicological effects**

Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401 Test substance: methyl methacrylate literature
Acute inhalation toxicity	LC50 Rat: 29.8 mg/l / 4 h Test substance: methyl methacrylate (literature value)
Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg Test substance: methyl methacrylate literature
Skin irritation	irritating Test substance: methyl methacrylate literature
Eye irritation	slightly irritating Test substance: methyl methacrylate literature
Sensitization	May cause sensitisation by skin contact. Test substance: methyl methacrylate literature
Repeated dose toxicity	inhalative Rat Testing period: 2 Jahre NOAEL: 25 mg/kg target organ/effect: irritative effects, skin linings Test substance: methyl methacrylate literature  Oral Rat Testing period: 2 Jahre NOAEL: 2000 mg/kg Test substance: methyl methacrylate drinking water analysis, no therapy-related results, literature
Assessment of STOT single exposure	no data available
Assessment of STOT repeat exposure	no data available
Risk of aspiration toxicity	no data available
Gentoxicity in vitro	positive and negative Test substance: methyl methacrylate literature
Gentoxicity in vivo	no evidence of mutagenic effects Test substance: methyl methacrylate literature
Mutagenicity assessment	in vivo: no evidence of mutagenic effects
carcinogenicity assessment	no evidence that cancer may be caused, literature., tested substance:, methyl methacrylate

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teratogenicity assessment      no evidence of teratogenic properties, tested substance:, methyl methacrylate

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxicity to fish	LC50 <i>Lepomis macrochirus</i> : 191 mg/l / 96 h Test substance: methyl methacrylate literature  Oncorhynchus mykiss: > 79 mg/l / 96 h Test substance: methyl methacrylate Method: OECD 203 literature
Toxicity in aquatic invertebrates	EC50 <i>Daphnia magna</i> : 68 mg/l / 48 h Test substance: methyl methacrylate Method: OECD 202 (literature value)  EC50 <i>Daphnia magna</i> : 49 mg/l / 21 d Test substance: methyl methacrylate Method: OECD 202 part 2 (literature value)
Toxicity to algae	EC50 <i>selenastrum capricornutum</i> : 170 mg/l / 96 h Test substance: methyl methacrylate Method: OECD 201 literature
Toxicity to bacteria	EC0 <i>Pseudomonas putida</i> : 100 mg/l Test substance: methyl methacrylate literature

### 12.2. Persistence and degradability

Biodegradability	Exposure time: 14 Tage Result: 94 % Readily biodegradable. Test substance: methyl methacrylate Method: OECD 301 C
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### 12.3. Bioaccumulative potential

Bioaccumulation	Significant bioaccumulation need not be expected.
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### 12.4. Mobility in soil

Mobility	If the product penetrates the soil it will become mobile and might pollute the groundwater.
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**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****13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

**SECTION 14: Transport information****Transport on land (ADR/RID/GGVSEB)**

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
ADR: Tunnel Restriction Code: (D/E)	
ADR: Measures as 2.2.3.2.2 ADR/RID/ADN have been applied., Observe listed materials regulation §35, paragraph 1 GGVSEB	
RID: Measures as 2.2.3.2.2 ADR/RID/ADN have been applied.	

**Inland waterway transport (ADN/GGVSEB (Germany))**

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
Measures as 2.2.3.2.2 ADR/RID/ADN have been applied.	

**Air transport ICAO-TI/IATA-DGR**

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	Methyl methacrylate monomer, stabilized solution
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
IATA-C: FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!	
IATA-P: FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!	

**Sea transport IMDG-Code/GGVSee (Germany)**

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED

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- SOLUTION**
- 14.3. Transport hazard class(es): 3
- 14.4. Packing group: II
- 14.5. Environmental hazards: --
- 14.6. Special precautions for user: Yes  
 EmS: F-E,S-D  
 Clear of living quarters., FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transportapproval see regulatory information

**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., 1B , H317 Eye Dam./Eye Irrit., 2 , H319 STOT SE, 3 , H335	

**Relevant H phrases from chapter 3**

H225 : Highly flammable liquid and vapour.  
 H315 : Causes skin irritation.  
 H317 : May cause an allergic skin reaction.  
 H319 : Causes serious eye irritation.  
 H335 : 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****ADR**

European Agreement concerning the International Carriage of Dangerous Goods by

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<b>ADN</b>	Road European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization