according to 1907/2006/EC, Article 31 Version number 1 Revision: 23.02.2017 Printing date 23.02.2017 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: TopDent Isolierspray · 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 Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. · 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 · Signal word Danger · Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. · Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 Do not pierce or burn, even after use. P211 Do not spray on an open flame or other ignition source. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. (Contd. on page 2) GB



Printing date 23.02.2017

Version number 1

Revision: 23.02.2017

Trade name: TopDent Isolierspray

(Contd. of page 1)

· 2.3 Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

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

#### · 3.2 Chemical characterisation: Mixtures

· Description: Dental material

· Dangerous components:				
CAS: 106-97-8 EINECS: 203-448-7	butane	🚸 Flam. Gas 1, H220; Press. Gas C, H280	55-60%	
CAS: 74-98-6 EINECS: 200-827-9	propane	🔅 Flam. Gas 1, H220; Press. Gas C, H280	25-30%	

• Additional information: REACH Reg.-Nr. (n-Butan)01-2119474691-32-xxxx REACH Reg.-Nr. (Propan)01-2119486944-21-xxxx 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.

• 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: No special measures required.

(Contd. on page 3)



GB ·

Revision: 23.02.2017

Printing date 23.02.2017

Version number 1

Trade name: TopDent Isolierspray

(Contd. of page 2)

- 6.3 Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material.
- 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.
- $\cdot$  Information about fire and explosion protection:
- Do not spray onto a naked flame or any incandescent material.

*Pressurised container: protect from sunlight and do not expose to temperatures exceeding* 50 °C, *i.e. electric lights. Do not pierce or burn, even after use.* 

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store only in the original receptacle.
- Observe official regulations on storing packagings with pressurised containers.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: None.
- Storage class: VCI: 2 B
- 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:

#### 106-97-8 butane

- WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm
  - Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm
  - *Carc* (*if more than 0.1% of buta-1.3-diene*)
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection:
- DGUV 112-190 Breathing apparatus
- Type AX

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.

- Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- · Material of gloves
- Fluorocarbon rubber (Viton)

(Contd. on page 4)



GB

Version number 1

Revision: 23.02.2017

Printing date 23.02.2017

Trade name: TopDent Isolierspray

(Contd. of page 3)

Butyl rubber, BR Recommended material thickness: Butylkautschuk: 0,50 mm +/- 0,10 mm Fluorkautschuk: 0,75 mm +/- 0,10 mm 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 Basis: DGUV 212-007 Permeation: Level 6 > 480 min Permeation (Butykautschuk): + Level 6 (> 480 min) The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. The exact break through 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: Fluorocarbon rubber (Viton)

Butyl rubber, BR

· Eye protection: Not required.

9.1 Information on basic physical an	nd chemical properties
General Information	
Appearance: Form:	Aerosol
rorm: Colour:	Colourless
Odour:	Recognisable
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling ra	$nge: < -20 \ ^{\circ}C$
Flash point:	< -20 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	365 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
Explosion limits:	
Lower:	1.4 Vol %
Upper:	10.8 Vol %
Vapour pressure:	Not determined.
Density at 20 °C:	0.683 g/cm <sup>3</sup>
Relative density	Not determined.

Revision: 23.02.2017

Trade name: TopDent Isolierspray

Printing date 23.02.2017

		(Contd. of page 4)
· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
· 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:	80.0 %	
VOC(EC)	98%	
· 9.2 Other information	No further relevant information available.	

#### **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.
- $\cdot$  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.

# **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- 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.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- $\cdot \textbf{STOT-repeated exposure} \textit{ Based on available data, the classification criteria are not met.}$
- 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

(Contd. on page 6)

Version number 1

Version number 1

Revision: 23.02.2017

Trade name: TopDent Isolierspray

Printing date 23.02.2017

(Contd. of page 5)

#### · 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

16 05 04\* gases in pressure containers (including halons) containing hazardous substances

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name ADR IMDG IATA	1950 AEROSOLS AEROSOLS Aerosols, flammable AEROSOLS
14.3 Transport hazard class(es) ADR, IMDG, IATA	
Class Label	2.1 2.1
14.4 Packing group	
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code	Not applicable. 2.1 F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre Category A. For AEROSOLS with a capacity above 1 litre Category B. For WASTE AEROSOLS: Category C, Clea of living quarters.



Printing date 23.02.2017

KASCHN DENT

Version number 1

Revision: 23.02.2017

Trade name: TopDent Isolierspray

	(Contd. of page
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre Segregation as for class 9. Stow "separated from" class except for division 1.4. For AEROSOLS with a capacit above 1 litre: Segregation as for the appropriat subdivision of class 2. For WASTE AEROSOLS Segregation as for the appropriate subdivision of class 2.
· 14.7 Transport in bulk according to A	nnex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
• ADR	
$\cdot$ Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	1
• Tunnel restriction code	(D)
· IMDG	
$\cdot$ Limited quantities (LQ)	1 L
$\cdot$ Excepted quantities ( $\widetilde{EQ}$ )	Code: E0
	Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

### SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 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** H220 Extremely flammable gas. H280 Contains gas under pressure; may explode if heated.
- 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

(Contd. on page 8)

GB

Version number 1

Revision: 23.02.2017

#### Trade name: TopDent Isolierspray

Printing date 23.02.2017

(Contd. of page 7)

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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases – Category 1 Aerosol 1: Aerosols – Category 1 Press. Gas C: Gases under pressure – Compressed gas

