

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

075893847

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

075893813 075893821 075893839 078579960

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

075893805

# Sicherheitsdatenblatt

gemäß Verordnung (EG) Nr. 1907/2006 (REACH)



Trade name: Bausch Arti-Spray® blue, green, red and white  
Product No.: BK 287, BK 288, BK 286, BK 285  
Product group: Occlusion-Spray  
Version: 002 / EN

Erstellungsdatum: 28.03.2017

## SECTION 1: Identification of the Substance or Mixture and Company

### 1.1 Name of the product

Bausch Occlusion-Spray BK 285, BK 286, BK 287, BK 288

### 1.2 Recommended use

Universal color indicator to test the occlusal contacts and accurate fit of crowns and bridges.

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

#### 1.2.1 Relevante identifizierte Verwendungen

No information available at present.

#### 1.2.2 Uses advised against

No information available at present.

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

Dr. Jean Bausch GmbH & Co. KG, Oskar-Schindler-Str.4, 50769 Köln  
Phone +49 (0)221-70936-0, Fax +49 (0)221-70936-66  
[info@bauschdental.de](mailto:info@bauschdental.de), <http://bauschdental.de>

**E-mail address of the competent person:** pb@bauschdental.de

**Contact person for information:** Peter Bausch (CEO)

**National contact person:** Peter Bausch (CEO)

### 1.4 Emergency phone

Peter Bausch (CEO) Phone +49 (0)221-70936-20, Mobil +49 (0)172-2601451

## ABSCHNITT 2: Hazard(s) identification

### 2.1. Classification of Substance or Mixture

#### 2.1.1 Classification according to Regulation (EG) Nr. 1272/2008 [CLP]

**Hazard Class and  
Hazard Category**

**Warnings**



GHS02 flame

Flammable Aerosol

H222-H229

Extremely flammable aerosol.  
Pressurized container: May burst if heated.

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### 2.1.2. Classification according to Directives 67/548/EWG and 1999/45/EG



F+; Extremely flammable

R12: Extremely flammable.

#### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the „General Classification guideline for preparations of the EU“ in the latest valid version.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Keep out of the reach of children.

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 2.2 Label elements

### 2.2.1 Labeling according to Regulation (EC) Nr. 1272/2008 [CLP]

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms:



GHS02

#### Signal word:

Danger

#### Hazard statements:

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

#### Precautionary statements:

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.  
P271 Use only outdoors or in a well-ventilated area.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### Additional information:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

## 2.3 Other hazards (Results of PBT and vPvB assessment)

PBT: Not applicable

vPvB: Not applicable

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## Section 3: Composition/information on ingredients

### 3.1 Substance

This product is a mixture.

### 3.2 Mixtures

#### 3.2.1 Description/Chemical Characterization

Mixture of substances listed below with nonhazardous additions.

#### 3.2.2 Dangerous components

CAS: 75-28-5	isobutane	F+ R12	50-100%
EINECS: 200-857-2		Flam. Gas 1, H220; Press. Gas, H280	

**Additional information:** For the wording of the listed risk phrases refer to section 16.

## Section 4: First-aid measures

### 4.1 Description of the First-aid measures

#### 4.1.1 General Information

Remove contaminated clothing immediately. Or seek the occurrence of ill health doctor.

#### 4.1.2 After Inhalation

Supply fresh air; consult doctor in case of complaints.

#### 4.1.3 After Skin contact

Generally the product does not irritate the skin.

#### 4.1.4 After Eye contact

Remove contact lense(s) from eye(s). Rinse opened eye for several minutes under running water.  
Consult doctor in case of complaints.

#### 4.1.5 After Ingestion:

If symptoms persist consult doctor.

### 4.2 Information for doctor

#### 4.2.1 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.2.2 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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## **Section 5: Firefighting measures**

### **5.1 Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, 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**

No further relevant information available.

### **5.3 Advice for firefighters**

**Protective equipment:** No special measures required.

## **Section 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

### **6.2 Environmental precautions**

No special measures required.

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

Ensure adequate ventilation.

### **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 Handling**

#### **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

#### **Information about fire - and explosion protection**

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

#### **Storage**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

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**Information about storage in one common storage facility**

Not required.

**Further information about storage conditions**

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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

**Section 8: Limiting exposure controls / personal protection**

**8.1 Control Parameters**

**Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**8.2.1 Personal protective equipment**

**General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:**

Not required.

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

**Material of gloves**

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**

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

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

Natural rubber, NR

Butyl rubber, BR

Nitrile rubber, NBR

**Eye protection:**



Tightly sealed goggles

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## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>9.1.1 Appearance</b>	
Form	Aerosol.
Colour	Different according to colouring.
Odour	Pleasant.
Odour threshold	Not determined.
<b>9.1.2. Security-related data base</b>	<b>Value</b>
pH (20°C)	Not determined.
Melting point/Melting range	-159,4°C
Boiling point/Boiling range	-44°C
Flash point	Not applicable, as aerosol.
Flammability (solid, gaseous)	Not applicable.
Ignition temperature	460°C
Decomposition temperature	Not determined.
Self-igniting	Product is not selfigniting.
Danger of explosion	Not determined.
Explosion limits	
Lower	1,8 Vol % (Propan/Butan)
Upper	8,5 Vol % (Propan/Butan)
Vapour pressure (20°C):	3000hPa
Density (20°C)	0,6 g/cm³
Relative density	Not determined.
Vapour density (Luft=1)	Not determined.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with water (20°C):	0,049 g/l
Partition coefficient (n-Octanol/Wasser)	Not determined.
Viscosity	
Dynamic	Not determined.
Kinematic	Not determined.
Solvent content	
Organic solvents	0,0%
VOC (EC)	98%
Solids content	< 5 %
Other information	No further relevant information available

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## Section 10: Stability and Reactivity

### 10.1 Reactivity

There is no data available concerning the product.

### 10.2 Chemical Stability

There is no data available concerning the product.

### 10.3 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

### 10.4 Possibility of hazardous reactions

No dangerous reactions known.

### 10.5 Conditions to avoid

No further relevant information available.

### 10.6 Incompatible materials

No further relevant information available.

### 10.7 Hazardous decomposition products

No dangerous decomposition products known.

## Section 11: Toxicological Information

### Information on toxicological effects of the mixture

#### Acute toxicity

LD/LC50 values relevant for classification		
106-97-8 Butan		
Inhalative	LC50/4h	658 mg/l (rat)

#### Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritant effect.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity: Not determined.

Toxicokinetics, metabolism and distribution: Not determined.

Acute effects (acute toxicity, irritation and corrosivity): Not determined.

Repeated dose toxicity: Not determined.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Not determined.



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## Section 12: Ecological information

### Toxicity

**Aquatic Toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

### Behaviour in environmental systems -

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

### Ecotoxic effects:

**Remark:** The product is high-volatile.

### Additional ecological information -

**General notes:** Generally not hazardous for water.

### Results of PBT and vPvB assessment -

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

## Section 13: Information for Disposal

### 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.

European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04	gases in pressure containers (including halons) containing dangerous substances

### Uncleaned packaging:

#### Recommendation

Disposal must be made according to official regulations.

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## Section 14: Transport Information

UN-Number ADR, IMDG, IATA	UN1950
UN proper shipping name ADR IMDG IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
Transport hazard class(es) ADR  Klasse Gefahrzettel	2 5F Gases 2.1
IMDG, IATA  Class Label	2.1 2.1
Packing group ADR, IMDG, IATA	Void
Environmental hazards Marine pollutant	No
Special precautions for user Danger code (Kemler) EMS-Nummer	Warning: Gases. - F-D,S-U
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
ADR Excepted quantities (EQ) Limited quantities (LQ) Transport category Tunnel restriction code	E0 1L 2 D
UN „Model Regulation“	UN1950, AEROSOLS, 2.1

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## Section 15: Regulatory Information

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

#### 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

- 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.  
P271 Use only outdoors or in a well-ventilated area.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**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.

R12 Extremely flammable.

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## 16.1 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)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
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 Harmonized 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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

## 16.2 Update Notes

There are no update notes available at present.

### Issued by:

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