

## Safety Data Sheet

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

**1.1 Product identifier** **OCCLUSION SPRAY**

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
 Product is used for marking the contact points on prosthetic items on the master model in dental laboratory and finished prosthetic works in dental surgery.

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

Manufacturer/Supplier:	INTERDENT d.o.o.	<i>Production:</i> INTERDENT d.o.o.
Street:	Opekarniška cesta 26	Dol 1
Country code /Postal code/City:	SI-3000 Celje	SI-3342 Gornji Grad
Telephone:	+386(0) 425-62-00	
Fax:	+368(0) 490-62-02	

**1.4 Emergency telephone number**

Emergency phone: 112 (EU)  
+386(0) 425-62-00 (Mon. – Fri.: 8.00 – 16.00)

### **SECTION 2: Hazards Identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008:

Hazard class	Hazard category	Hazard statements
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:

**Hazard pictograms:**



**Signal word: DANGER**

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**Hazard statements:**

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

**Precautionary statement:**
*Prevention:*

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Pressurized container: Do not pierce or burn, even after use.

*Storage:*

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 F.

**Component on the label:**

Isobutane

**2.3 Other hazards**

PBT and vPvB evaluations are in chapter 12.5

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

**3.1 Mixtures:** Residual 5 %: color Fe<sub>2</sub>O<sub>3</sub> and Cr<sub>2</sub>O<sub>3</sub>

Chemical name	INDEX number EC-Number CAS Nr.	%	Classification according to EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
Isobutane	601-004-00-0	50- 100	Flam. Gas 1 Press Gas C	H220 H280
	200-857-2			
	75-28-5			

**SECTION 4: First Aid Measures**
**4.1 Description of first aid measures**
*Inhalation:*

Remove victim to the fresh air and place it in half sitting position. Ask for medical attention if difficulties appear. Do not inject adrenaline or its derivatives.

*Skin contact:*

Remove contaminated clothes. Wash off with plenty of water and soap immediately.

*Eye contact:*

Wash off open eye with plenty of water. Ask for medical help when difficulties appear.

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### *Ingestion:*

Do not induce vomiting. First wash mouth with water and then drink 100mL of water. Ask for medical attention and show safety data sheet.

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

Symptoms: Coughing and sneezing.

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

Symptomatic treatment.

## ***SECTION 5: Firefighting measures***

### **5.1 Extinguishing media**

#### *Suitable:*

CO<sub>2</sub>, foam, powder, water fog.

#### *Unsuitable:*

Water jet.

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

Threaten containers cool down with dispersed jet of water. Risk of explosion if heated under confinement. Violent eruption of containers may occur under fire conditions.

### **5.3 Advice for firefighters**

#### *Special protective equipment for firefighting:*

Large amount of gases can be released during fire – wear suitable gas – mask.

## ***SECTION 6: Accidental release measures***

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

Keep away from the source of ignition. take care for the good ventilation. Avoid contact with skin, eyes and inhalation. Remove containers that cannot be tightly closed.

### **6.2 Environmental precautions**

Do not allow enter sewage system or waters. Absorb spillage with adsorbent. Discard in accordance with local law.

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

No data available

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

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see

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section 13.

### **SECTION 7: Handling and storage**

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

Packing under pressure. Do not open it by force or set on fire. Discard only completely empty packages. Do not spray in the flame or red-hot objects.

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

Store on room temperature in good ventilated location, safe against fire. Protect it from the direct sun light and temperature above 50°C.

#### **7.3. Specific end use(s)**

Product is intended to be used in dental laboratories and offices for determination of contact points between model or tooth and prosthetic substitute.

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

#### **8.1 Control parameters**

Council Directive 98/24/EC with all implementations and amendments

Official Gazette RS, No. [100/01](#), [39/05](#), [53/07](#), [102/10](#), [43/11](#) – ZVZD-1, [38/15](#), [78/18](#), [78/19](#)

#### **Ingredients with limit values that have to be considered and measured in the working place**

##### **Isobutane**

##### **OEL**

Current exposure: 9600 mg/m<sup>3</sup>, 4000 ppm

Long-term exposure: 2400 mg/m<sup>3</sup>, 1000 ppm

#### **Limit under which substance has not effect (DNEL)**

No data available.

#### **For seen concentration without effect (PNEC):**

No data available.

#### **8.2 Exposure controls**

Personal protective equipment in accordance with Regulation (EU) 2016/425 and list of harmonized standards for personal protection equipment 2018/C 209/03.

#### *Common protection and hygienic measures:*

Avoid contact with skin and eyes. Contaminated clothes took of immediately. Do not breath vapor, aerosol or gases. Do not eat, drink or smoke during work. Protect food. Wash hands before meal and after meal.

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*Respiratory protection:*

In good ventilated area protection is not necessary.

*Hand protection:*

Wear nitrile or butyl gloves (EN ISO 374-1:2016).

*Eye protection:*

Protective goggles (EN 166:2001).

**8.2.2 Control of environment protection**

Common instructions: Do not wash rinse with fresh water or to drainage system.

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

#### **9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	aerosol
<b>Colour</b>	Red, green
<b>Odour</b>	odourless
<b>pH</b>	No data available
<b>Density</b>	0,54 – 0,66 g/mL (20°C)
<b>Data valid for isobutane</b>	
<b>Boiling point</b>	-44°C
<b>Flash point</b>	n.a.
<b>Melting point</b>	- 159,4 °C
<b>Auto ignition temperature</b>	n.a.
<b>Upper explosion limit</b>	8,5 % (V)
<b>Lower explosion limit</b>	1,8 vol %
<b>Decomposition temperature</b>	n.a.
<b>Density and/or relative density</b>	n.a.
<b>pH</b>	No data available
<b>Solubility in water</b>	Not soluble
<b>Partition coefficient n-octanol/water (log value)</b>	n.a.
<b>Vapour pressure</b>	3000 hPa (20°C)
<b>Kinematic viscosity</b>	n.a.
<b>Oxidative properties</b>	n.a.
<b>Particle characteristics</b>	n.a.

#### **9.2 Other information**

No additional information relevant to safe use of the mixture.

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### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Stable under recommended storage conditions and the intended use.

#### **10.2 Chemical stability**

Stable under normal conditions and proper use.

#### **10.3 Possibility of hazardous reaction**

Explosion possible at temperature higher than 50°C because of higher pressure in the package. Possible formation of explosive mixture with air. Reaction with oxidants.

#### **10.4 Conditions to avoid**

Heat, flame. High temperature raise pressure in packaging and packaging can explode. Product is aerosol and must not be sprayed in flame.

#### **10.5 Incompatible materials**

No data available

#### **10.6 Hazardous decomposition products**

None under normal conditions of storage and use.

### **SECTION 11: Toxicological information**

#### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Chemical name:** Isobutane

**Acute toxicity:**

#### **Important LD/LC50 values:**

<b>Oral</b>	<b>LD50</b>	No data available
<b>Dermal</b>	<b>LD50</b>	No data available
<b>Inhalation</b>	<b>LC50</b>	658000 mg/m <sup>3</sup> (4 h, rat) - RTECS

**Skin corrosion/irritation:** Not classified

**Serious eye damage/irritation:** Not classified

**Respiratory or skin sensitization:** Not classified

**Germ cell mutagenicity:**

Not classified

**Carcinogenicity:** Data not available.

**Reproductive toxicity:** Not classified.

**Teratogenicity:** Not classified

**STOT-single exposure:** Not classified as STOT – single exposure.

**STOT-repeated exposure:** Not classified as STOT – repeated exposure.

**Aspiration hazard:** Not classified as aspiration hazard.

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### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

No data available.

#### **12.2 Persistence and degradability**

No data available.

#### **12.3 Bioaccumulative potential**

No data available.

#### **12.4 Mobility in soil**

No data available.

#### **12.5 Results of PBT and vPvB assessment**

No data available.

#### **12.6 Endocrine disrupting properties**

No data available.

#### **12.7 Other adverse effects**

Do not allowed enter sewage system, waters, underground water.

### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

Directive 2008/98/EC, Official Gazette RS 37/15, 69/15

*Methods of disposal:* Dispose in accordance with Regulation about handling with waste.

*Recommendation:* Do not dispose with domestic waste. Store waste separately. Due to the risk of contamination dispose of with industrial waste or as hazardous waste.

*Category of disposal packaging:*

#### **European waste catalogue**

16	Wastes not otherwise specified in the list
16 05	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing dangerous substances

*Uncleaned packaging:*

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Recommendation: Disposal must be made according to official regulations. Store waste separately. Due to the risk of contamination dispose of with industrial waste or as hazardous waste.

15 01 11\* metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

<b>SECTION 14: Transport Information</b>			
	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number</b>	UN 1950		
<b>14.2 UN proper shipping name</b>	aerosols, flammable		
<b>14.3 Transport hazard class(es)</b>			
Class	2	2.1	
Classification code	5F	/	/
Label(s)	2.1		
Hazard identification number	/	/	/
Transport category (Tunnel restriction code)	2 (D)	/	/
EmS	/	F-D, S-U	/
<b>14.4 Packing group</b>	Void		
<b>14.5 Environmental hazards</b>	No environmental hazard		
<b>14.6 Special precautions for user</b>	Warning: Gases		
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No data available		

### **SECTION 15: Regulatory information**

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



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Product is classified in accordance with directive EC 1907/2006 and 1272/2008 and additional changes or national legislation Ur.l. RS 101/2002 and Ur.l.RS 16/2008.

### 15.2 Chemical safety assessment

No data available.

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

#### *Revision:*

Version 09 issued on December 2022 in accordance with EC No. 1907/2006 (Commission Regulation (EU) 2015/830) and EC No. 1272/2008.

Revision in accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### *Legend of abbreviations:*

ADR – European agreement concerning the international carriage of dangerous goods by road

CAS – Chemical Abstracts Service

CLP – Classification, Labeling and Packaging

CMR – Carcinogenic, Mutagenic or toxic for Reproduction

DNEL - Derived no-effect level

EC<sub>50</sub>: Half maximal effective concentration

EmS – Emergency Schedule

GHS – Globally Harmonised System of Classification and Labeling of Chemicals

IATA – International Air Transport Association

IUCLID – International Uniform Chemical Information Database

IMDG – International Maritime Dangerous Goods Code

LC<sub>50</sub>: Lethal concentration, 50%

LD<sub>50</sub>: Median lethal dose; the dose causing 50% lethality

MARPOL – International convention for the prevention of pollution from ships

NOEC - No-observed-effect concentration

NOAEL – No-observed-adverse-effect level

NTP- National Toxicology Program

OEL - Occupational exposure limit

OECD - Organisation for Economic Co-operation and Development

PBT – Persistent Bioaccumulative Toxic

PNEC: Predicted no-effect concentration

Ppm – parts per million

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

RTECS – The Registry of Toxic Effects of Chemical Substances

RID – Regulation concerning the international carriage of dangerous goods by rail

vPvB – very Persistent and very Bioaccumulative

**H220** Extremely flammable gas

#### *References:*

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Safety data sheets of the substances for the product  
Directive EC 1907/2006 and 1272/2008 with all amendments  
Council Directive 98/24/EC with all implementations and amendments (Official Gazette RS, No. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18, 78/19);  
Directive 2008/98/EC with all amendments, Official Gazette RS 37/15, 69/15.  
Martindale: The Extra Pharmacopoeia, 13. edition  
European convention about international transport of hazardous material ADR

*Disclaimer of expressed and implied warranties:*

The information contained in the safety data sheet have been translated from the manufacturer, revised in accordance with the Slovenian legislation. Guidelines for the safe use, handling, disposal, storage and transportation and cannot be used as a guarantee. The information relates only to the specific product and is not suitable for combining with other materials or for use in another process as described in the instructions.