

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 Pressurised 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 Fe₂O₃ and Cr₂O₃

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

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.

Ingestion:

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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:

CO₂, 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 section 13.

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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/m³, 4000 ppm

Long-term exposure: 2400 mg/m³, 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.

Respiratory protection:

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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

Form	aerosol
Colour	Red, green
Odour	odourless
pH	No data available
Density	0,54 – 0,66 g/mL (20°C)
Data valid for isobutane	
Boiling point	-44°C
Flash point	n.a.
Melting point	- 159,4 °C
Auto ignition temperature	n.a.
Upper explosion limit	8,5 % (V)
Lower explosion limit	1,8 vol %
Relative density	n.a.
pH	No data available
Solubility in water	Not soluble
Division coefficient water/n-octanol	n.a.
Vapour pressure	3000 hPa (20°C)
Viscosity	n.a.
Oxidative properties	n.a.

9.2 Other information

No additional information relevant to safe use of the mixture.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions and the intended use.

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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 toxicological effects

Chemical name: Isobutane

Acute toxicity:

Important LD/LC50 values:

Oral	LD50	No data available
Dermal	LD50	No data available
Inhalation	LC50	658000 mg/m ³ (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 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:

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

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SECTION 14: Transport Information			
	ADR/RID	IMDG	IATA
14.1 UN number	UN 1950		
14.2 UN proper shipping name	aerosols, flammable		
14.3 Transport hazard class(es)			
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	/
14.4 Packing group	Void		
14.5 Environmental hazards	No environmental hazard		
14.6 Special precautions for user	Warning: Gases		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	No data available		

SECTION 15: Regulatory information

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

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.

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SECTION 16: Other information

Revision:

Version 08 issued on November 2021 in accordance with EC No. 1907/2006 (Commission Regulation (EU) 2015/830) and EC No. 1272/2008.

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
EC₅₀: 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
LC₅₀: Lethal concentration, 50%
LD₅₀: 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:

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.

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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.