

Occlu-Spray

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

- 1.1 Product identifier**
Commercial product name: Occlu-Spray
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
- Application of the substance / the mixture:** Auxiliary for dental technology
- 1.3 Details of the supplier of the safety data sheet**
Company / Manufacturer: al dente Dentalprodukte GmbH
Street / mailbox: Borsigstr. 1
Country code. / postal code / city: D - 38644 Goslar
Phone: 0 53 21 / 80031
Fax: 0 53 21 / 50881
E-mail / Website: info@aldente.de / www.aldente.de
Further information obtainable from: al dente Dentalprodukte GmbH
- 1.4 Emergency telephone number:**
al dente Dentalprodukte GmbH: +49 (0) 53 21 / 80031 (Mo-Fr 8:00-16:00)

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

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

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.

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

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 characterization:

Mixture.

Description:

Dispersion of wax in a solvent mixture.

Dangerous components:

CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 RTECS: TZ 4300000	isobutane	 Flam. Gas 1, H220; Press. Gas (Comp.), H280	50-100%
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Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures *

4.1 Description of first aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Generally the product does not irritate the skin.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

If symptoms persist consult doctor.

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: Fire Fighting measures: *

5.1 Extinguishing media

Suitable extinguishing media:

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:

No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

No special measures required.

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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 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:	
Requirements to be met by storerooms and receptacles:	Store in a cool location. Observe official regulations on storing packagings with pressurised containers.
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.
7.3 Specific end use(s):	No further relevant information available.

SECTION 8: Exposure controls / Personal protection *

8.1 Control parameters	
Additional information on the design of technical systems:	No further information, see Section 7.
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	
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:	Not necessary if room is well-ventilated.

according to 1907/2006/EC, Article 31

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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

SECTION 9. Physical and chemical properties**9.1 Information on basic physical and chemical properties****General information:****Appearance:****Form:**

Aerosol

Colour:

Whitish

Odour:

Pleasant

Odour threshold:

Not determined.

pH-value:

Not determined.

Change in condition:**Melting point/freezing point:**

-159.4 °C

Initial boiling point and boiling range:

-44 °C

Flash point:

Not applicable, as aerosol.

Flammability (solid, gas):

Not applicable.

Ignition temperature:

460 °C

Decomposition temperature:

Not determined.

Auto-ignition temperature:

Product is not selfigniting.

Explosive properties:

Not determined.

Explosion limits:**Lower:**

1.8 Vol % (Propan/Butan)

Upper:

8.5 Vol % (Propan/Butan)

Vapour pressure at 20 °C:

3000 hPa

Density at 20 °C:0.6 g/cm³**Relative density:**

Not determined.

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.

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Viscosity:	
Dynamic:	Not applicable
Kinematic:	Not applicable
Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	95 %
Solids content:	<5 %

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.
10.4 Conditions to avoid:	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
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.
Additional toxicological information:	
CMR effects (carcinogenicity, 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.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.

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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.
- Ecotoxical effects:**
- Remark:** The product is highly volatile.
- Additional ecological information:**
- General notes:** Not hazardous for water.
- 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: 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.

SECTION 14: Transport Information *

- 14.1 UN-Number**
- ADR, IMDG, IATA:** UN1950
- 14.2 UN proper shipping name**
- ADR:** 1950 AEROSOLS
- IMDG:** AEROSOLS
- IATA:** AEROSOLS, flammable
- 14.3 Transport hazard class:**
- ADR**



Class: 2.5F Gases
Label: 2.1

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IMDG, IATA



Class: 2.1
Label: 2.1

14.4 Packaging group:
ADR, IMDG, IATA: Void

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user: Warning: Gases.
Hazard identification number (Kemler code): -
EMS Number: F-D,S-U

14.7 Transport in bulk according to Annex II of the MARPOL Agreement and according to the IBC Code: Not applicable.

Transport/Additional information:

ADR
Excepted quantities (EQ): E0
Limited quantities (LQ): 1L
Transport category: 2
Tunnel restriction code: D

UN "Model Regulation": UN1950, AEROSOLS, 2.1

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: GHS label elements
Directive 2012/18/EU
REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Further Information *

The information is based on the current state of our knowledge, however, it does not represent a guarantee of product characteristics and does not establish a contractual legal relationship.

Relevant sentences:

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

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 Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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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 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 (Comp.):	Gases under pressure – Compressed gas

*** Data changed versus the previous version**