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

Product identifier

Commercial product name: Occlu-Spray

Relevant identified uses of the substance or No further relevant information available.

mixture and uses advised against:

Application of the substance / the mixture: Auxiliary for dental technology

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

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222 Extremely flammable aerosol.

> H229 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 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smokina.

Do not spray on an open flame or other ignition source. P211

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.

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

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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 Mixture

Description: Mixture of substances listed below with nonhazardous

additions.

 Dangerous components:

 CAS: 75-28-5
 isobutane
 50-100%

 EINECS: 200-857-2
 Flam. Gas 1, H220; Press. Gas (Comp.), H280

 RTECS: TZ 4300000
 H280

 Reg.nr.: 01-2119485395-27-xxxx
 H280

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: In cases of frost bites, rinse with plenty of water. Do not

remove clothing. Rinse with warm water.

After eye contact: Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water.

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. Use fire extinguishing methods suitable to

surrounding conditions.

5.2 Special hazards arising from the substance

or mixture:

In case of fire, the following can be released:

Carbon monoxide (CO)

5.3 Advice for firefighters

Protective equipment: Do not inhale explosion gases or combustion gases.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment

and emergency procedures:

Keep away from ignition sources.

Ensure adequate ventilation

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:

Allow to evaporate.

Ensure adequate ventilation.

Reference to other sections: See Section 7 for information on safe handling. 6.4

See Section 8 for information on personal protection

equipment.

See Section 13 for disposal information.

SECTION 7: Handling and Storage

Precautions for safe handling:

Keep away from heat and direct sunlight.

Information about fire - and explosion

protection:

Do not spray onto a naked flame or any incandescent

material. Highly volatile, flammable constituents are released

during processing.

Fumes can combine with air to form an explosive mixture. Emergency cooling must be available in case of nearby fire.

Keep ignition sources away - Do not smoke.

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.

No further relevant information available. 7.3 Specific end use(s):

SECTION 8: Exposure controls / Personal protection

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.

Exposure controls

Appropriate engineering controls:

No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Not necessary if room is well-ventilated.

Respiratory protection:

Not required.

Use suitable respiratory protective device in case of

Wash hands before breaks and at the end of work.

insufficient ventilation.

Hand protection:

Material of gloves:

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Due to missing tests no recommendation to the glove

material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on

consideration of the penetration times, rates of diffusion and

the degradation.

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 cannot 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.

For the permanent contact in work areas without heightened risk of injury (e.g.

Laboratory) gloves made of

the following material are suitable:

Rubber gloves

For the permanent contact gloves made of

the following materials are suitable:

Neoprene gloves

Eye/face protection: Not required.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

General information:

Physical state: Aerosol

Colour: Different according to colouring

Odour: Pleasant Odour threshold: Not determined. Melting point/freezing point: -159.4 °C Boiling point or initial boiling point and -44 °C

boiling range:

Flammability:

Density and/or relative density

Extremely flammable liquefied gas.

Lower and upper explosion limit

Lower: 1.8 Vol % (Propan/Butan) 8.5 Vol % (Propan/Butan) Upper: Flash point: Not applicable, as aerosol.

460 °C **Ignition temperature:**

Decomposition temperature: Not determined. pH: Not applicable

Viscosity

Kinematic viscosity: Not applicable Dynamic: Not applicable

Solubility

water at 20 °C: 0.049 g/l (Isobutan) Partition coefficient n-octanol/water (log Not determined.

value):

Vapour pressure at 20 °C: 3,000 hPa

Density at 20 °C: 0.56 g/cm³ Relative density: Not determined.

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Vapour density: Not determined.

9.2 Other information:

Appearance:

Form: Aerosol

Important information on protection of health and environment, and on safety.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Not determined.

Solvent content:

VOC (EC): 95 % **Solids content:** 41.0 %

Change in condition

Evaporation rate: Not applicable.

Information with regard to physical hazard classes Explosives: Void

Flammable gases: Extremely flammable gas.

Aerosols: Void Oxidising gases: Void

Gases under pressure: Contains gas under pressure; may explode if heated.

Flammable liquids: Void
Flammable solids: Void
Self-reactive substances and mixtures: Void
Pyrophoric liquids: Void
Pyrophoric solids: Void
Self-heating substances and mixtures: Void
Substances and mixtures, which emit

flammable gases in contact with water:

Oxidising liquids:

Oxidising solids:

Organic peroxides:

Corrosive to metals:

Desensitised explosives:

Void

Void

Void

Void

Void

Void

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.

LD/LC50 values relevant for classification:

75-28-5 isobutane

Inhalative LC50/4 h 258,000 mg/l (rat)

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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 (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.

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.

Aspiration hazard: Based on available data, the classification criteria are not

met.

11.2 Information on other hazards

Endocrine disrupting properties:None of the ingredients is listed.

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity:	
75-28-5 isobutane	
EC50	7.71 mg/l (A)
LC50/96h	27.98 mg/l (fish)

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.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

12.6 Endocrine disrupting properties: The product does not contain substances with endocrine

disrupting properties.

12.7 Other adverse effects:

Remark: The product is highly volatile.

Additional ecological information:

General notes: Not hazardous for water.

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SECTION 13: Disposal Considerations

13.1 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.

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:



Class: 2 5F Gases

Label: 2.1

IMDG, IATA



Class: 2.1 Gases

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

Code: E0 **Excepted quantities (EQ):**

Not permitted as Excepted Quantity

IMDG

Limited quantities (LQ): 1L

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Excepted quantities (EQ): Code: E0

Not permitted as Excepted Quantity

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

The product is classified and labelled according to the GB

CLP regulation.

Hazard pictograms



Signal word:

Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smokina.

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.

Directive 2012/18/EU

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t 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: 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:

Règlement international concernant le transport des marchandises dangereuses par RID:

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)

International Civil Aviation Organisation ICAO:

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (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 Harmonised System of Classification and Labelling of Chemicals

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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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1 Aerosol 3: Aerosols – Category 3

Press. Gas (Comp.): Gases under pressure – Compressed gas

^{*} Data changed versus the previous version