

Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH), Article 31

Version number: 1.3 / Revision date: 01.09.2021

Okklu-Contact-Spray

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Tradename: Okklu-Contact-Spray
 Article number: #1170 0538 blue / #1170 0539 green / # 1170 1413 red / #1170 1414 white
 UFI-Code: #1170 0538 blue = EDM9-3QCD-J21H-FXG8 / #1170 0539 green = MGM9-MQ1S-V211-392A
 # 1170 1413 red = 3H1D-YQ9R-J21J-7NCQ / #1170 1414 white = JK1D-GQ04-V211-WYXS

1.2. Relevant identified uses of the substance or mixture and uses advised against
 No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company name: Baumann Dental GmbH
 Street/P.O. Box: Im Hölderle 5
 Post code, Place: D-75196 Remchingen
 Internet: www.baumann-dental.de
 @-mail: info@baumann-dental.de
 Telephone: +49 (0) 7232 - 73218 - 0
 Telefax: +49 (0) 7232 - 73218 - 99
 Department responsible for information:
 Telephone: +49 (0) 7232 - 73218 - 0
 E-mail: info@baumann-dental.de

1.4. Emergency telephone number

Germany: +49(0)551-19240 (Poison Information Centre North, 24h in German and English)
 Austria: +43(0)1-4064343 (Poison Information Centre, 24h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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



GHS02 Flame

Flam. Gas 1A H220 Extremely flammable gas.
 Press. Gas (Comp.) H280 Contains gas under pressure; may explode if heated.

2.2. Label elements



GHS02

Signal word: Hazard
 Hazard warning: Flam. Gas 1A H220 Extremely flammable gas.
 Press. Gas (Comp.) H280 Contains gas under pressure; may explode if heated.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381 In case of leakage, eliminate all ignition sources.
 P410+P403 Protect from sunlight. Store in a well-ventilated place.

Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH), Article 31

Version number: 1.3 / Revision date: 01.09.2021

Okklü-Contact-Spray

Additional information:

Pressurised container. Protect from sunlight and temperatures exceeding 50°C. Do not open by force or burn, even after use. Do not spray into flames or red-hot objects. Keep away from sources of ignition - no smoking. Keep out of 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 characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous ingredients:

CAS: 75-28-5 EINECS: 200-857-2	Isobutane	Flam. Gas 1, H220; Press. Gas C, H280	50-100%
-----------------------------------	-----------	---------------------------------------	---------

Additional notes:

Wording of the listed hazard statements is given in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

After inhalation:	Remove injured person from the danger area to fresh air while protecting yourself. Keep the injured person calm and protect against hypothermia. If breathing is difficult, allow oxygen inhalation. Arrange for medical treatment. After extreme inhalation may be required:
After skin contact:	In case of unconsciousness with breathing present, keep the patient in the recovery position. Remove the injured person from the danger area while protecting yourself. Remove wet clothing, paying attention to protect yourself. After contact with liquefied isobutane / expanding gas on the body, thaw frozen clothing first by rinsing with plenty of cold or lukewarm water, only then carefully remove.
After eye contact:	After contact with liquefied or expanding cold gas: Only rinse eyes briefly with water of normal temperature (no longer than 10 - 30 sec.). Do not force the eyelids open, leave contact lenses in place. Do not apply heat. Cover with sterile material. Then transport to the ophthalmologist/hospital immediately if possible. If symptoms persist, consult a doctor.
After ingestion:	Ingestion of the cryogenic liquid is hardly imaginable. If it does happen: Allow to drink 1 glass of water slowly in small sips. Further measures as under "Respiratory organs". Call a doctor to the accident scene.

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

Symptomatic treatment

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam. Extinguishing media unsuitable for safety reasons: full water jet

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Special protective equipment:

No special measures required.

**Safety data sheet according to Regulation (EC)
No. 1907/2006 (REACH), Article 31**

Version number: 1.3 / Revision date: 01.09.2021

Okklü-Contact-Spray

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

For information on safe handling, see Section 7.
For information on personal protective equipment, see Section 8.
For information on disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure good ventilation/extraction at the workplace.
Open and handle container with care.
Notes on fire and explosion protection:
Do not spray into flames or red-hot objects.
Keep sources of ignition away - no smoking.
Take measures against electrostatic charging.

7.2. Conditions for safe storage, including any incompatibilities

Storage:
Requirements for storage rooms and containers:
Store in a cool place.
The official regulations for the storage of pressurised aerosol packaging must be observed.
Information on common storage: Not required.

Further information on storage conditions:
Keep containers tightly closed.
Do not close the container gas-tight.
Store in cool and dry place in tightly closed containers.
Protect from heat and direct sunlight.
Storage class: 2B

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information on the design of technical systems:
No further information, see Section 7.

8.1. Control parameters

Components with limit values to be monitored at the workplace:

75-28-5 Isobutane	
EU OEL	1000 ml/m ³ / 2400 mg/m ³ / Peak limit: Exceedance factor 4 Duration 15 min, mean value; 4 times per shift; interval 1 h

Additional information: the lists valid at the time of preparation served as a basis.

Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH), Article 31

Version number: 1.3 / Revision date: 01.09.2021

Okclu-Contact-Spray

8.2. Exposure controls

Personal protective equipment:

General protection and hygiene measures:

Wash hands prior to breaks and at the end of work.

Do not inhale gases/vapours/aerosols.

Respiratory protection: Not required with good room ventilation.

Hand protection: Wear work gloves when handling pressurised gas cylinders.

Selection of the glove material taking into account breakthrough times, permeation rates and degradation.

Glove material: The selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Penetration time of the glove material

The exact breakthrough time must be obtained from the manufacturer of the protective gloves and must be observed.

Gloves made of the following materials are suitable as splash protection:

Natural rubber (latex), butyl rubber, nitrile rubber

Eye protection:



Wear safety goggles with side shields.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General notes:

Appearance

Form:	Aerosol
Colour:	Various, depending on colouring
Odour:	Pleasant
Odour threshold:	Not determined.
pH value:	Not determined.
Change of state	
Melting point/freezing point:	-159.4°C
Initial boiling point and boiling range:	-44°C
Flash point:	Not applicable as aerosol.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	460°C
Decomposition temperature:	Not determined.
Auto-ignition:	The product is not self-igniting.
Explosive properties:	Not determined.
Explosive limits	
Lower:	1.8 Vol % (propane/butane)
Upper:	8.5 Vol % (propane/butane)
Vapour pressure at 20°C:	3000 hPa
Density at 20°C:	0.6 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not applicable.
Solubility in / miscibility with	
Water:	Not miscible or hardly miscible.
Distribution coefficient:	
n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	not applicable

**Safety data sheet according to Regulation (EC)
No. 1907/2006 (REACH), Article 31**

Version number: 1.3 / Revision date: 01.09.2021

Okclu-Contact-Spray

Kinematic:	not applicable
Solvent content	
Organic solvent:	0.0%
VOC (EU)	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 avoid:
No decomposition if used as intended.

10.3. Possibility of hazardous reactions

No hazardous 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 hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: Based on the available data, the classification criteria are not met.

Primary irritant effect:

Corrosive/irritant effect on the skin:	Based on the available data, the classification criteria are not met.
Severe eye damage/irritation:	Based on the available data, the classification criteria are not met.
Sensitisation of the respiratory tract/skin:	Based on the available data, the classification criteria are not met.
CMR effects:	(carcinogenic, mutagenic and teratogenic)
Germ cell mutagenicity:	Based on the available data, the classification criteria are not met.
Carcinogenicity:	Based on the available data, the classification criteria are not met.
Reproduction toxicity:	Based on the available data, the classification criteria are not met.
Specific target organ toxicity for single exposure:	Based on the available data, the classification criteria are not met.
Specific target organ toxicity for repeated exposure:	Based on the available data, the classification criteria are not met.
Aspiration hazard:	Based on the available data, the classification criteria are not met.

**Safety data sheet according to Regulation (EC)
No. 1907/2006 (REACH), Article 31**

Version number: 1.3 / Revision date: 01.09.2021

Okclu-Contact-Spray

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

Ecotoxic effects:

Note: the product is slightly volatile.

Further ecological information:

General information: generally non-hazardous to 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

Recommendation: Must be subjected to special treatment in accordance with official regulations. Must not be disposed of together with household waste.

Do not allow to enter the sewage system.

European Waste Directory

16 00 00 Waste not listed elsewhere in the directory.

16 05 00 Gases in pressure vessels and spent chemicals

16 05 04* Gases in pressure vessels containing dangerous substances (including halons)

Uncleaned packaging:

Recommendation: Disposal in accordance with official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

ADR, IMDG, IATA UN1969

14.2. UN proper shipping name

ADR 1969 ISOBUTANE

IMDG, IATA ISOBUTANE

14.3. Transport hazard classes

ADR



Class 2.2F Gases

Hazard label 2.1

**Safety data sheet according to Regulation (EC)
No. 1907/2006 (REACH), Article 31**

Version number: 1.3 / Revision date: 01.09.2021

Okclu-Contact-Spray

IMDG, IATA



Class 2
Label 2.1

14.4. Packing group

ADR, IMDG, IATA not applicable

14.5. Environmental hazards

Marine pollutant: No

14.6. Special precautions for user

Attention: Gases
Kemler number: 23
EMS number: 2-07

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

Transport/further information:

ADR/RID

Limited quantity (LQ): 0
Exempted quantities (EQ) Code: E0
Not approved in exempted quantities

Transport category: 2
Tunnel restriction code: D/E

IMDG

Limited quantities (LQ) 0
Exempted quantities (EQ) Code: E0

Not permitted as Exempted Quantity

UN "Model Regulation": UN 1969 ISOBUTANE, 2.1

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU

Named hazardous substances - ANNEX I

The substance is not contained.

Seveso category: P2 FLAMMABLE GASES

Threshold quantity (in tonnes) for use in lower classified operations: 10 t

Threshold quantity (in tonnes) for use in higher classified operations: 50 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of limitation: 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: The substance is not contained.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit concentration for a licence under Article 5(3))

The substance is not contained.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS:

The substance is not contained.

National regulations:

Water hazard class: 1 = slightly hazardous to water

15.2. Chemical safety assessment

A chemical safety assessment has not been conducted.

Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH), Article 31

Version number: 1.3 / Revision date: 01.09.2021

Okklü-Contact-Spray

SECTION 16: OTHER 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.

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

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing the data sheet: Product Safety Department

Abbreviations and acronyms:

ADR:	Accord relatif au transport international 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
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 1A:	Flammable gases - Category 1A
Press. Gas (Comp.):	Gases under pressure - compressed gas