OCCLU LAB'SPRAY

SAFETY DATA SHEET



ISSUE DATE: 22.09.2022 REVISION DATE: 22.09.2022

VERSION: 1.0

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

English Translation Of German SDS

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

1.1. Product identifier

Product form : Mixture

Trade name : Occlu LAB'spray

Product code : SDS Number : 10474
Vaporizer : Aerosol
Product use : Professional use

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Function or use category : Coating

1.2.2. Uses advised against

Restrictions on use : intraoral application, Restricted to professional users

1.3. Details of the supplier of the safety data sheet

Supplier

Dentaco GmbH & Co.KG Max-Keith-Str. 46 45136 Essen Deutschland

Tel.: + 49 (0) 201/ 8098290 Fax: + 49 (0) 201/ 80982999

Internet: www.dentaco.de; info@dentaco.de

E-Mail: HSE@rle.de

1.4. Emergency telephone number

+ 49 (0) 201/8098290 (Mo. - Fr. 09:00 - 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Physical hazards Aerosol, Category 1 H222;H229 Extremely flammable aerosol. Pressurised

container: May burst if heated.

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol.

2.2. Label elements

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

Hazard pictograms



Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements

Prevention

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.

Storage

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

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS- No	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
	EC- No			
	Index No			
	RRN			
butane	106-97-8	50 - < 75	Flam. Gas 1A, H220	(Note C)(Note U)
	203-448-7		Press. Gas (Comp.), H280	
	601-004-00-0			
	01-2119474691-32-XXXX			
Propane	74-98-6	10 - < 25	Flam. Gas 1A, H220	(Note U)
	200-827-9		Press. Gas (Comp.), H280	
	601-003-00-5			
	01-2119486944-21-XXXX			

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U(table 3.1): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

First-aid measures after eye contact

4.1. Description of first aid measures

First-aid measures general : Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a physician if symptoms develop or persist.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical

advice/attention.

First-aid measures after ingestion : Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: : May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical, CO2, dry sand, or alcohol-resistant foam.

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurised container: May burst if heated.

Reactivity in case of fire : In the event of fire hazardous gases may occur.

5.3. Advice for firefighters

Firefighting instructions : Move container from fire area if it can be done without risk. Use water spray or fog for cooling

exposed containers.

Protection during firefighting : Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear

fire/flame resistant/retardant clothing.

Other information : Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been read and understood. Eliminate every possible

source of ignition.

6.1.1. For non-emergency personnel

Emergency procedures : Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear

appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be

contained. For personal protection, see section 8 of the SDS.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

MSDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Remove all sources of ignition. Keep away from combustible material. Stop the leak.

Other information : Prevent entry into waterways, sewer, basements or confined areas.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from sources of ignition - No smoking. Do not pierce or burn, even after use. Use only

outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Avoid prolonged exposure. Avoid contact with eyes. Observe good industrial hygiene practices. Do not eat, drink or smoke when using this product. Wear appropriate personal protective equipment. Keep

only in original container. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-

ventilated place. Keep container tightly closed. Keep away from ignition sources.

Storage class (LGK, TRGS 510) : LGK 2B - Aerosol dispensers and lighters

7.3. Specific end use(s)

Coating.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

butane (106-97-8)		
Germany - Occupational Exposure Lim	ermany - Occupational Exposure Limits (TRGS 900)	
Local name	Butan	
AGW (OEL TWA) [1]	2400 mg/m³	
AGW (OEL TWA) [2]	1000 ppm	
AGW (OEL C)	9600 mg/m³	
AGW (OEL C) [ppm]	4000 ppm	
Remark	DFG	
Regulatory reference	TRGS900	
Propane (74-98-6)		
Germany - Occupational Exposure Lim	aits (TRGS 900)	
Landana	Desman	

Local name	Propan
AGW (OEL TWA) [1]	1800 mg/m ²
AGW (OEL TWA) [2]	1000 ppm
Peak exposure limitation factor	4(II)
Remark	DFG
Regulatory reference	TRGS900

Germany - Occupational Exposure Limits (Generic OEL data)

DFG-MAK Liste (empfohlene Arbeitsplatzgrenswerte)

1800 mg/m3 (8-Stunden); 7200 mg/m3 (15-Minuten)

Propan (CAS 74-98-6)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

8.2.2.1. Eye and face protection

Eye protection:

If skin or eye contact with the product is probable, protective glasses with side shield are recommended

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear appropriate protective gloves for prolonged or repeated skin contact

Other skin protection

Materials for protective clothing:

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

8.2.2.4. Thermal hazards

Thermal hazard protection:

Wear appropriate thermal protective clothing, when necessary.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Inform appropriate managerial or supervisory personnel of all environmental releases.

Other information:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas
Colour : Colourless.
Appearance : Aerosol.
Odour : Characteristic.
Odour threshold : Not available

Melting point : -188 – -138 °C (1.013 hPa)

Freezing point : Not applicable

Boiling point : -42 - 0 °C (1.013 hPa)

Flammability : Extremely flammable aerosol

Explosive properties : May form explosive/flammable vapor/air mixtures during use.

Explosive limits : Not available
Lower explosive limit (LEL) : 1.5 vol %
Upper explosive limit (UEL) : 10.9 vol %

Flash point : Aerosol|Not applicable

Auto-ignition temperature : 365 – 470 °C

Decomposition temperature : Not available

pH : Not applicable

Viscosity, kinematic : Not applicable

Solubility : Water: < 0.1 g/l (20 °C)

Log Kow : Not available

Vapour pressure : 2200 – 8400 hPa (@ 20 °C)

Vapour pressure at 50 °C : Not available

Density : 0.5 – 0.58 g/m³ (@ 20 °C)

Relative density : Not applicable
Relative vapour density at 20 °C : Not available
Relative density of saturated gas/air mixture : 1.55 – 2.09

 Product code: DE - en
 Revision date: 9/22/2022
 5/10

Particle size : Not applicable Particle size distribution : Not applicable Not applicable Particle shape Particle aspect ratio Not applicable Not applicable Particle aggregation state Not applicable Particle agglomeration state Particle specific surface area Not applicable Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : Not applicable

9.2.2. Other safety characteristics

VOC (EU) : Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Hydrocarbon fragments.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Based on available data, the classification criteria are not met Acute toxicity (dermal) Based on available data, the classification criteria are not met Acute toxicity (inhalation) Based on available data, the classification criteria are not met Skin corrosion/irritation : Based on available data, the classification criteria are not met 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 Germ cell mutagenicity Based on available data, the classification criteria are not met Carcinogenicity : Based on available data, the classification criteria are not met : Based on available data, the classification criteria are not met Reproductive toxicity 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

Occlu LAB´spray				
Vaporizer	Aerosol			

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms : Occupational exposure to the substance or mixture may cause adverse effects

SECTION 12: Ecological information

12.1. Toxicity

: The product is not classified as environmentally hazardous. However, this does not exclude the Ecology - general

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

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term : Based on available data, the classification criteria are not met

(chronic)

12.2. Persistence and degradability

butane (106-97-8)

Persistence and degradability Readily biodegradable.

Propane (74-98-6)

Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential

butane (106-97-8)

Log Pow 1.09 - 2.8 @ 20 °C, pH 7

Propane (74-98-6)

1.09 - 2.8 @ 20 °C, pH 7 Log Pow

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Occlu LAB'spray

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Waste treatment methods : Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with licensed

collector's sorting instructions.

Product/Packaging disposal recommendations Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Additional information : Dispose in accordance with all applicable regulations.

08 02 01 - waste coating powders European List of Waste (LoW) code 15 01 04 - metallic packaging

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

Product code: -DE - en Revision date: 9/22/2022 7/10

14.1. UN number or ID number

 UN-No. (ADR)
 : UN 1950

 UN-No. (IMDG)
 : UN 1950

 UN-No. (IATA)
 : UN 1950

 UN-No. (ADN)
 : UN 1950

 UN-No. (RID)
 : UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS
Proper Shipping Name (IATA) : Aerosols, flammable
Proper Shipping Name (ADN) : AEROSOLS
Proper Shipping Name (RID) : AEROSOLS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 2.1
Danger labels (ADR) : 2.1

IMDG

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1

IATA

Transport hazard class(es) (IATA) : 2.1 Hazard labels (IATA) : 2.1

ADN

Transport hazard class(es) (ADN) : 2.1
Danger labels (ADN) : 2.1

RID

Transport hazard class(es) (RID) : 2.1
Danger labels (RID) : 2.1

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 11
Packing instructions (ADR) : P207
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Packing instructions (IMDG) : P207, LP200 EmS-No. (Fire) : F-D EmS-No. (Spillage) : S-U Stowage category (IMDG) : None

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

Inland waterway transport

Classification code (ADN) : 5F

Special provisions (ADN) : 190, 327, 344, 625

Limited quantities (ADN) : 1 L

Rail transport

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L

Packing instructions (RID) : P207, LP200

Hazard identification number (RID) : 23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code Applicable on
40. butane ; Propane
Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : Not applicable.

Other information, restriction and prohibition regulations: Directive 94/33/EC on the protection of young people at work, as amended is applicable. Directive

98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended is applicable. Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : P3a

15.1.2. National regulations

Water hazard class (WGK)

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Prohibition of Chemicals Ordinance (ChemVerbotsV)
: WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Listed in the 12. BImSchV (Annex I) under: 1.2.3.1

- Quantity threshold for operational area under § 1 para. 1

- Sentence 1 :150000 kg - Sentence 2 :500000 kg

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

None.

Full text of H- and EUH-statements

Aerosol 1 Aerosol, Category 1

Flam. Gas 1A Flammable gases, Category 1A H220 Extremely flammable gas. H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Aerosol 1 H222;H229 On the basis of test data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

 Product code: DE - en
 Revision date: 9/22/2022
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