

according to Regulation (EC) No. 1907/2006 (REACH)

Occlusionsspray grün 75 ml

Date of compilation: 2020-10-07

Version number: GHS 1.0

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

1.1 Product identifier Trade name Registration number (REACH) Other means of identification article number

Occlusionsspray grün 75 ml not relevant (mixture)

400491 / 400926

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

 Relevant identified uses
 coating for particular industrial and professional uses

 Medical device
 Medical device

1.3 Details of the supplier of the safety data sheet

Eisenbacher Dentalwaren ED GmbH Dr. - Konrad - Wiegand - Straße 9 63939 Wörth am Main Germany

Telephone: + 49 9372 / 94 04 0 Telefax: + 49 9372 / 94 04 29 e-mail: info@eisenbacher.de Website: www.eisenbacher.de

1.4 Emergency telephone number

Emergency information service

+ 49 9372 / 94 04 0 This number is only available during the following office hours: Mon-Fri 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)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard state- ment
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H22 9
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 3	(Aquatic Chronic 3)	H412

Remarks

For full text of H-phrases: see SECTION 16.

Supplemental hazard information

Code	Supplemental hazard information
EUH066	repeated exposure may cause skin dryness or cracking

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) Signal word Danger



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Pictograms

GHS02, GHS07



Hazard statements

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P273 Avoid release to the environment.

Precautionary statements - response

P312 Call a POISON CENTRE/doctor if you feel unwell.

Precautionary statements - storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant.

Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazardous ingredients for labelling: pentane

2.3 Other hazards

Repeated exposure may cause skin dryness or cracking.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32- xxxx	50 - < 75	Flam. Gas 1 / H220 Press. Gas L / H280	



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Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
propane	CAS No 74-98-6	10-<25	Flam. Gas 1 / H220 Press. Gas L / H280	
	EC No 200-827-9			
	REACH Reg. No 01-2119486944-21- xxxx			
isobutane	CAS No 75-28-5	1-<5	Flam. Gas 1 / H220 Press. Gas L / H280	
	EC No 200-857-2			
	REACH Reg. No 01-2119485395-27- xxxx			
pentane	CAS No 109-66-0	1-<5	Flam. Liq. 1 / H224 STOT SE 3 / H336	
	EC No 203-692-4		Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
	REACH Reg. No 01-2119459286-30- xxxx			~

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none



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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media water spray, BC-powder Unsuitable extinguishing media water jet

5.2 Special hazards arising from the substance or mixture Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 **Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 **Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities Managing of associated risks

Flammability hazards

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



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Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

Specific end use(s) 7.3

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Cou ntry	Name of agent	CAS No	lden tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m ³]	Nota tion	Sour ce
EU	n-pentane	109-66-0	IOEL V	1,000	3,000						2006/ 15/EC
GB	butane	106-97-8	WEL	600	1,450	750	1,810				EH40/ 2005
GB	pentane	109-66-0	WEL	600	1,800						EH40/ 2005

Notation

Ceiling-C STEL

Ceiling value is a limit value above which exposure should not occur Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours timeweighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time
pentane	109-66-0	DNEL	432 mg/kg	human, dermal	worker (in- dustry)	chronic - systemic ef- fects
pentane	109-66-0	DNEL	3,000 mg/m ³	human, inhalatory	worker (in- dustry)	chronic - systemic ef- fects

relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environ- mental com- partment	Exposure time
pentane	109-66-0	PNEC	3,600 ^{µg} / _I	aquatic organisms	sewage treat- ment plant (STP)	short-term (single in- stance)
pentane	109-66-0	PNEC	880 ^{µg} / _l	aquatic organisms	water	intermittent release

8.2 **Exposure controls**

Appropriate engineering controls

General ventilation.



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Individual protection measures (personal protective equipment)

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Eye/face protection

Wear eye/face protection.

Skin protection

hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical pr Appearance	operties
	Physical state	aerosol (spray aerosol)
	Colour	various
	Odour	characteristic
	Other physical and chemical parameters	
	pH (value)	not determined
	Melting point/freezing point	not determined
	Initial boiling point and boiling range	-161.5 °C at 1,013 hPa
	Flash point	-40 °C
	Evaporation rate	not determined
	Flammability (solid, gas)	Flammable aerosol in accordance with GHS criteria
	Explosive limits	
	 lower explosion limit (LEL) 	1.4 vol%
	 upper explosion limit (UEL) 	15 vol%
	Vapour pressure	8.563 PSI at 70 °F
	Density	not determined
	Relative density	Information on this property is not available.
	Solubility(ies)	not determined
	Partition coefficient	
	n-octanol/water (log KOW)	This information is not available.
	Auto-ignition temperature	260 °C (auto-ignition temperature (liquids and gases))
	Viscosity	not relevant (aerosol)
	Explosive properties	none
	Oxidising properties	none
9.2	Other information	
	Solvent content	4.133 %



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Solid content	0.7872 %	
propellant content	95.08 %	

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided strong shocks

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

Information on toxicological effects 11.1

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.



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• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butane	106-97-8	LC50	27.98 ^{mg} / _l	fish	96 h
butane	106-97-8	EC50	7.71 ^{mg} / _l	algae	96 h
propane	74-98-6	LC50	27.98 ^{mg} / _l	fish	96 h
propane	74-98-6	EC50	7.71 ^{mg} / _l	algae	96 h
isobutane	75-28-5	LC50	49.9 ^{mg} / _l	fish	96 h
isobutane	75-28-5	EC50	19.37 ^{mg} / _l	algae	96 h
pentane	109-66-0	LL50	27.55 ^{mg} / _l	fish	96 h
pentane	109-66-0	EL50	48.11 ^{mg} / _l	aquatic inverteb- rates	48 h
pentane	109-66-0	EC50	2.8 ^{mg} / _l	aquatic inverteb- rates	48 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
pentane	109-66-0	oxygen depletion	3 %	7 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
butane	106-97-8		1.09 (pH value: 7, 20 °C)	
propane	74-98-6		1.09 (pH value: 7, 20 °C)	
isobutane	75-28-5		1.09 (pH value: 7, 20 °C)	
pentane	109-66-0	171	3.45 (pH value: 7, 25 °C)	



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Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6 Other adverse effects** Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

14.1	UN number	1950	
14.2	UN proper shipping name	AEROSOLS	
14.3	Transport hazard class(es)		
	Class	2 (gases) (aerosol)	
	Subsidiary risk(s)	2.1 (flammability)	
14.4	Packing group	not assigned to a packing group	
14.5	Environmental hazards	NONE (non-environmentally hazardous acc. to the dangerous goods regulations)	
14.6	Special precautions for user		
	Provisions for dangerous goods (ADR) should be complied within the premises.		
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code		
	The cargo is not intended to be carried in b	ulk.	

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UN number	1950
Proper shipping name	AEROSOLS
Class	2
Classification code	5F
Danger label(s)	2.1
Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0



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Limited quantities (LQ)	1L
Transport category (TC)	2
Tunnel restriction code (TRC)	D
International Maritime Dangerous Goods C	Code (IMDG)
UN number	1950
Proper shipping name	AEROSOLS
Class	2.1
Danger label(s)	2.1
Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	EO
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-
International Civil Aviation Organization (IC)	CAO-IATA/DGR)
UN number	1950
Proper shipping name	Aerosols, flammable
Class	2.1
Danger label(s)	2.1
Special provisions (SP)	A145, A167
Excepted quantities (EQ)	EO
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

 Directive 75/324/EEC relating to aerosol disp 	ensers
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Classification of the gas/aerosol	Extremely flammable
Labelling	Pressurized container: may burst if heated Keep away from heat, hot surfaces, sparks, open flames and other ig- nition sources. No smoking Do not pierce or burn, even after use Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

Abbreviations	and acro	nvms
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Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethal- ity during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality



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Abbr.	Descriptions of used abbreviations
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concern- ing the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Specific end use(s)

Coating for particular industrial and professional usesMedical device



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Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.