



# Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

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1.1 Item description	Occlusal spray Different colours Item 580-2007/-2008/-2009/-2010 <b>CLIENT NUMBER H101907</b> Content: 75ml
Scope:	Contact spray for the dental area
1.2 Identified/inadvisable use	for commercial use only
1.3 Manufacturer:	YETI Dentalprodukte GmbH Industriestr.3 78234 Engen Germany <a href="http://www.yeti-dental.com">www.yeti-dental.com</a> <a href="http://www.dentalwax.com">www.dentalwax.com</a> <a href="mailto:info@yeti-dental.com">info@yeti-dental.com</a>
Telephone advice service:	Phone +49-7733-9410-0, Fax +49-7733-9410-22 (MON - THU 8:00 am – 4:30 pm, FRI 8 am – 3 pm)
1.4 Emergency number	Phone +49-7733-9410-0, Fax +49-7733-9410-22 (MON – THU 8 am – 4:30 pm, FRI 8 am – 3 pm)

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## 2. Potential Hazards

2.1 Classification of the substance or mixture according to Directive 67/548/EEC-1999/45/EC  
F-Highly flammable, R11- Highly flammable, R12-Extremely flammable  
Xn-Harmful, R22-Harmful if swallowed.  
R36 Irritating to eyes, N-Dangerous to the environment, R51/53 toxic to aquatic organisms,  
may cause long-term adverse effects in the aquatic environment. R67 Vapours may cause  
drowsiness and dizziness.  
The classification is in compliance with the current EU Directives but is also completed with details  
given by technical literature and company.

### 2.2 Labelling elements according to Directive (67/548/EEC - 1999/45/EC)



**Signal word: Caution**

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H224 - Extremely flammable liquid and vapour  
H336 - May cause drowsiness and dizziness.

## Miscellaneous:

P 102 – Keep out of the reach of children.

## Prevention:

P 210 - Keep away from heat/sparks/open flame/hot surfaces. No smoking.  
P 241 - Use explosion-proof electrical/ventilating/lighting/equipment.  
P 251 - Pressurized container: Do not pierce or burn, even after use.  
P 261 - Do not inhale dust/smoke/gas/mist/vapour or aerosol

## Reaction:

P 302+P352 - In case of contact with skin, wash immediately with plenty of water and soap.  
P 337+P313 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## Storage:

P 402 - Keep in a dry place.  
P 403 - Keep in a well-ventilated place.  
P 405 - Keep locked up. Do not break open.  
P 410 - Protect from sunlight. Pressurized container  
P 412 - Do not expose to temperatures above 50 °C.

## Disposal:

P 501 – The waste/container have to be disposed in line with the local/regional/national and international disposal rules.


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## 3. Composition/Information on ingredients

### 3.1 Chemical characterization:

Aerosol dispenser – Mixture consisting of the following components with harmless additions.

#### Hazardous components:

<u>CAS – NO</u>	<u>Chemical name</u>	<u>EINECS-NO</u>	<u>Labelling</u>	<u>H-Phrases</u>	<u>Quantity %</u>
106-97-8	Butane	203-448-7		220/280	50-100
74-98-6	Propane	200-827-9		220/280	25-50
67-63-0	Propane-2ol	200-661-7		225/319/336	10-25
75-28-5	Isobutane	200-857-2		220/280	2,5-10



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## 4. First aid measures

### 4.1 Description of the first aid measures

General instructions: In the event of accident, (show doctor directions for use or safety data sheet if possible.

If inhaled:

Potential discomfort: Cough, sneeze. Bring affected person into the open air immediately, and seek medical aid if required

In the event of skin contact:

Generally the product does not irritate the skin.

In the event of contact with the eyes:

Rinse the eyes with plenty of water with the eyelids open for several minutes

Potential symptoms may arise by foreign matters. Rinse the eyes with plenty of water with the eyelids open and consult an eye specialist.

If swallowed: If symptoms persist consult a doctor

### 4.2 Major acute and retardingly occurring symptoms and effects

Trouble breathing and drowsiness

### 4.3 Indications of any immediate medical attention or special treatment.

None known

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## 5. Fire-Fighting Measures

Extinguishing agents

Suitable extinguishing agents: Extinguishing powder, foam, CO2.

Unsuitable: Water full jet

### 5.2 Special danger caused by the substance of the hazardous components:

Danger of bursting and spreading of fire

### 5.3 Special protective measures for fire-fighting – special protective equipment

Special protective equipment: Wear full protective suit.

In the case of fire, wear a self-contained breathing apparatus.

Further information: Cool hazardous containers with a water spray jet

Avoid penetration of the extinguishing water into sewage or waters

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## 6. Accidental Release Measures

### 6.1 **Personal precautions, protective equipment and emergency measures**

#### **Personal precautions**

Wear protective equipment. Unprotected persons shall not be permitted to be in the affected area.

Avoid eye and skin contact as well as inhalation. Keep away from sources of ignition.

Provide for sufficient ventilation during a cleaning process.

#### 6.2 Environmental precautions

Avoid penetration of the contaminated washing water into sewage, surface or ground water.

#### 6.3 Methods and material for containment and cleaning up

Disposal of the contaminated material as waste according to sector 13.

#### 6.4 Reference to other sections/additional information

None

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## 7. Handling and storage

### 7.1 Precautions for safe handling

Advice for safe handling

Do not eat, drink or smoke in use.

Wash hands thoroughly before taking a break or finishing work.

Handling – Technical measures/precautionary measures:

Pressurized container! Do not pierce or burn; Do not spray into open flame or any blazing material.

Keep away from sources of ignition - No smoking.

### 7.2. Conditions for safe storage/ Requirements for storerooms and receptacles.

Storage:

Technical measures/Storage conditions

Store at room temperature in well-ventilated, cool rooms. Protect from heat and direct sunlight (above 50 °C). Keep away from: heat sources. Threshold limit value sure the storage is well-ventilated No smoking. Do not pierce or burn, even after use Do not throw away tin until it has been sprayed completely empty! Keep out of reach of children.

Observe the storage regulation according to TRG 300 storage

Storage class: 2B (Aerosol dispensers)

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## 8. Exposure Controls/Personal Protection Equipment

### 8.1 Control parameters

Job-related exposure limit values:

#### **106-97-8 Butane**

Occupational Exposure Limit Value (Germany) 2400mg/m<sup>3</sup>, 1000ml/m<sup>3</sup> 4(II) ;DFG

THRESHOLD LIMIT VALUE (Switzerland) 1900mg/m<sup>3</sup>,800ml/m<sup>3</sup>

#### **74-98-6 Propane**

OCCUPATIONAL EXPOSURE LIMIT VALUE (Germany) 1800mg/ m<sup>3</sup>, 1000ml/m<sup>3</sup> 4(II); DFG

Threshold limit value (Switzerland) Short-term value: 7200mg/m<sup>3</sup>, 4000ml/m<sup>3</sup>

Long-term value: 1800mg/m<sup>3</sup>, 1000ml/m<sup>3</sup>

#### **67-63-0 Propane-2-ol**

OCCUPATIONAL EXPOSURE LIMIT VALUE (Germany) 500mg/ m<sup>3</sup>, 200ml/m<sup>3</sup> 2(II); DFG, Y

THRESHOLD LIMIT VALUE (Switzerland) Short-term value: 1000mg/m<sup>3</sup>, 400ml/m<sup>3</sup>

Long-term value: 500mg/m<sup>3</sup>, 200ml/m<sup>3</sup>

#### **75-28-5 Isobutane**

OCCUPATIONAL EXPOSURE LIMIT VALUE (Germany) 2400mg/m<sup>3</sup>, 1000ml/m<sup>3</sup> 4(II) ;DFG

THRESHOLD LIMIT VALUE (Switzerland) 1900mg/m<sup>3</sup>,800ml/m<sup>3</sup>



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## 8.2 Exposure Control/Technical measures

### General protective and hygienic measures

Keep away from ignition and heat sources. No smoking. Do not breathe gas/vapour and aerosol. Ensure sufficient ventilation. Wash hands thoroughly prior to breaks and after finishing work.

### Personal protection equipment

Not required

### Respiratory protection

Use breathing protection in case of insufficient ventilation. P1-Filter in case of the limit value reaching max. 4 times its limit value.

### Hand protection

Not required

### Eye protection

Tightly sealed safety glasses

### Advice

Gloves made of nitrile according to EN374 (Permeation)

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

State of aggregation	aerosol/fluid
Colour	product-specific
Odour	alcoholic
Change of state	distinct, proportionate volume of propellant becomes immediately to gaseous
Boiling point/range	-11,7°C
Boiling point/range	-44°C (applies to the propellant)
Ignition temperature	365°C
Flash point	inapplicable since aerosol
Risk of explosion	Danger of bursting during overheating >50°C. May form explosive vapour/air mixture
Explosive limits	lower 1,5 Vol.% (37g.m <sup>3</sup> ) upper 9,4 Vol.% (231g.m <sup>3</sup> )
Vapour pressure	at 20°C; 301,9 kPa
Density:	at 20°C; 0,6g/cm <sup>3</sup>
Solubility in/Miscibility with water	virtually indissoluble
Solvent content	organic ca.15,5% VOC (EU) 95,60 %
Solids content	4,4%

### 9.2 Other information

Other details	Vapours are heavier than air.
Further details	No further relevant data



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## 10. Stability and Reactivity

### 10.1 Reactivity

#### Thermic decomposition

None, if handled and stored appropriately

### 10.2 Chemical stability

No hazardous polymerisation

### 10.3 Potential hazardous reactions

None known

### 10.4 Conditions to be avoided

Danger of bursting during overheating above 50°C by increasing the internal pressure

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Dangerous products of decomposition

None known

### 10.7 Storage stability

24 months

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

If there is sufficient oxygen no acute toxicity

#### Primary irritant effect

Cooling effect in the spray area

#### On the skin

No irritant effect

#### On the eyes

Light irritation

#### Sensitization

No sensitizing effects known

#### Additional toxicological information

None

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## 12. Ecological information

### 12.1 Toxicity

Aquatic toxicity: - No data available

12.2 Persistence and degradability: - No data available

12.3 Bioaccumulative potential: - No data available

12.4 Mobility in soil: - No data available

12.5 Results of the PBT and vPvB assessment: - No data available

12.6 Other adverse effects: - No data available

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## General information:

Do not empty undiluted or in large amounts into ground water, waters or sewage.

## Water hazard class:

1 (Self-classification) slight hazardous to waters

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## 13. Disposal considerations

### 13.1 Waste treatment methods

Advice on disposal

Not emptied aerosol cans:	Special Waste collection point
Fully emptied aerosol cans:	Collection of recyclables
Contaminated packaging:	Material utilization according to EAK 150104

European Waste Catalogue and hazardous waste list/European Waste Code

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

Do not dispose with household waste. Do not empty into drains.

Dispose in line with the official regulations.

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## 14. Transport information

### 14.1 Inland transport

#### **Inland transport ADR/RID and GGVS/GGVE (cross-border/inland)**

<u>ADR/RID-GGVS/E Code</u>	2.1
<u>Classification code:</u>	5F
<u>Packing group:</u>	5F
<u>UN number:</u>	1950/2
<u>Product designation:</u>	Aerosol dispenser
<u>Tunnel restriction code:</u>	(D)

### 14.2 Carriage by sea

#### **Carriage by sea IMDG/GGVSea:**

<u>IMDG/GGVSea-Code:</u>	2.1
<u>Packing group:</u>	5F
<u>UN number:</u>	1950/2
<u>EMS-number:</u>	F-D,S-U
<u>Proper Shipping Name:</u>	Aerosols
<u>Safety notes</u>	- (no Marine Pollutant)

### 14.3 Carriage by air

#### **Carriage by air ICAO-TI and IATA-DGR:**

<u>ICAO/IATA-Code:</u>	2.1
<u>Packing group::</u>	203
<u>UN/ID number:</u>	1950 / 2.1
<u>Proper Shipping Name:</u>	Aerosols
<u>Packaging regulation:</u>	203

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## 15. Regulations

**15.1 Safety, health and environmental regulations**  
Information about limitation of use

§ 5 MuSchRiV  
§ 22 JArbSchG  
§ 4 MuSchRiV

### Labelling according to EEC Directives

The product is classified and labelled according to EC Directives and the Ordinance on Hazardous Materials (German GefStoffV)

Code letter and hazard designation of product



### **Caution**

H224 - Extremely flammable liquid and vapour.  
H336 - May cause drowsiness and dizziness

### **General information**

P 102 - Keep out of the reach of children.

### **Prevention:**

P 210 - Keep away from heat/sparks/open flame/hot surfaces. No smoking  
P 241 - Use explosion-proof electrical/ventilating/lighting/equipment.  
P 251 - Pressurized container: Do not pierce or burn, even after use.  
P 261 - Do not inhale dust/smoke/gas/mist/vapour or aerosol.

### **Reaction:**

P 302+P352+P313 - In case of contact with skin, wash immediately with plenty of water and soap.

P337+P313 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### **Storage:**

P 402 - Keep in a dry place.  
P 403 - Keep in a well-ventilated place.  
P 405 - Keep locked up. Do not break open.  
P 410 - Protect from sunlight. Pressurized container  
P 412 - Do not expose to temperatures above 50 °C.

### **Disposal:**

P 501 – The waste/container have to be disposed in line with the local/regional/national and international disposal rules.

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National regulations: TRG Pressurized gases/special requirements for pressure gas containers (aerosol dispenser)

Labelling: CONTAINER IS UNDER PRESSURE. PROTECT FROM TEMPERATURES ABOVE 50 °C (e.g. against direct sunlight), DO NOT PIERCE OR BURN., DO NOT SPRAY ONTO A FLAME OR ANY INCANDESCENT MATERIAL. FLAMMABLE! NO SMOKING. KEEP OUT OF THE REACH OF CHILDREN.

Classification pursuant to the Industrial Safety Regulation

Technical instruction Air: Class NK quantity in % 10-25

Water hazard class: Slightly hazardous to water

## 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

**Customs tariff number: 32129090**

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## 16. Other information

### Data sources

Regulation (EC) NO1272/2008 of the European Parliament and Council adopted on 16 December 2008 concerning the classification, labelling and packaging of substances and mixtures.

Regulation (EC) NO790/2009 of the Commission adopted on 10 August 2009 for the amendment of the Regulation (EC) NO1272/2008

Directive 1999/45/EC of the European Parliament and of the Council for the approximation of the laws, regulations and administrative provisions of the Member States relating to classification, packaging and labelling of dangerous preparations

Directive 67/548/EEC of the European Council for the approximation of the laws, regulations and administrative provisions relating to classification, packaging and labelling of dangerous substances

Regulation (EC) NO 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemical (REACH).

### Further information

The information on this Safety Data Sheet which is based on the present state of our knowledge and experience are intended to provide information on the precise safety requirements for the different products. However, it does not constitute a legally binding assurance of the product properties.

However, flawlessness, reliableness and completeness are not warranted by the publisher and the information shall not establish a legally valid contractual relationship.

Strictly observe the warnings on the can!

Relevant phrases:

H220 - Extremely flammable gas.

H224 - Extremely flammable liquid and vapour

H280 - Contains gas under pressure, may explode when heated

H319 - Causes severe eye irritation

H336 - May cause drowsiness and dizziness.

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- R11 Highly flammable
- R12 Extremely flammable
- R22 Harmful if swallowed.
- R36 Irritating to eyes
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects
- R67 Vapours may cause drowsiness and dizziness.

## Key

ADR	European Agreement on the international carriage of dangerous goods
BImSchV	Ordinance for Implementation of the Federal Immission Control Act
CAS	Chemical Abstracts Service
DIN	Standard of the German Institute for Standardization
EC	Effective Concentration
EG	European Community
EEC	European Economic Community
EN	European Standard
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in bulk
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG-Code	International Maritime Code for Dangerous Goods
ISO	Standard of International Standards Organization
IUCLID	International Uniform Chemical Information Database
LC	Lethal Concentration
LD	Lethal Dose
Log Kow	Octanol-water partitioning coefficient
MARPOL	Maritime Pollution Convention=International Convention for the Prevention of Pollution from Ships
OECD	Organization for Economic Cooperation and Development
PBT	Persistent, bioaccumulative, toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative
VwVwS	German Administrative Regulation on Substances Hazardous to Water
WGK	Water hazard class

