

# **Chlorhexidine Tooth Varnish**

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 4/13/2018 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : Biodent EC40

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Professional use, Consumer use

Use of the substance/mixture : Agent for combating bacterial dental plaque.

# 1.2.2. Uses advised against No additional information available

# 1.3. Details of the supplier of the safety data sheet

Biodent B.V.

Graaf Lodewijkstraat 118 6821 EH Arnhem - Nederland info@biodent.nl - www.biodent.nl

# 1.4. Emergency telephone number

Emergency number : +31 620143120

# SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225 Hazardous to the aquatic environment — H411

Chronic Hazard, Category 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Toxic to aquatic life with long lasting effects.

# 2.2. Label elements

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

Hazard pictograms (CLP) :





HS02

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed. P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents to an approved waste disposal plant.

Child-resistant fastening : Not applicable
Tactile warning : Applicable

# 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

4/17/2018 EN (English) 1/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol, ethyl alcohol substance with national workplace exposure limit(s) (NL)	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	30 - 50	Flam. Liq. 2, H225
Chlorhexidine diacetate	(CAS-No.) 56-95-1 (EC-No.) 200-302-4	10 - 20	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Hazardous decomposition products in case of : Toxic fumes may be released.

fire

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

# SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

# 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

4/17/2018 EN (English) 2/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof

equipment. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

## 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

ethanol, ethyl alcohol (64	ethanol, ethyl alcohol (64-17-5)			
Netherlands	Local name	Ethanol		
Netherlands	Grenswaarde TGG 8H (mg/m³)	260 mg/m³		
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	1900 mg/m³		
Netherlands	Remark (MAC)	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een Haanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.		
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2017		

# 8.2. Exposure controls

# Appropriate engineering controls:

Ensure good ventilation of the work station.

# Materials for protective clothing:

Consider the use of flame resistant anti-static safety clothing.

## Hand protection:

Protective gloves. Standard EN 374 - Protective gloves against chemicals.

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Polyvinylchloride (PVC)	6 (> 480 minutes)	0.12		EN 374

# Eye protection:

EN 166. Wear security glasses which protect from splashes

#### Skin and body protection:

Wear suitable protective clothing

# Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):





4/17/2018 EN (English) 3/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : brown. Odour : alcohol odour. Odour threshold No data available No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : -90 °C 60 °C Boiling point <= 23 °C Flash point

Auto-ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) Not applicable Vapour pressure : No data available Relative vapour density at 20 °C : No data available : No data available Relative density Solubility No data available No data available Log Pow Viscosity, kinematic No data available No data available Viscosity, dynamic Explosive properties No data available No data available Oxidising properties **Explosive limits** : No data available

# 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

Highly flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

# 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

No additional information available

Serious eye damage/irritation

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

: Not classified

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

	Chlorhexidine diacetate (56-95-1)		
	LD50 oral	2000 mg/kg mouse	
Skin corrosion/irritation :		Not classified	

4/17/2018 EN (English) 4/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

# 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

## BioC chx tooth varnish

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. Other adverse effects

No additional information available

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

European List of Waste (LoW) code : 18 01 06\* - chemicals consisting of or containing dangerous substances

# **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1993	1993	1993	1993	1993
14.2. UN proper shipp	ing name			
FLAMMABLE LIQUID, N.O.S. (CONTAINS; ethanol, ethyl alcohol)	FLAMMABLE LIQUID, N.O.S. (CONTAINS; ethanol, ethyl alcohol)	Flammable liquid, n.o.s. (CONTAINS; ethanol, ethyl alcohol)	FLAMMABLE LIQUID, N.O.S. (CONTAINS; ethanol, ethyl alcohol)	FLAMMABLE LIQUID, N.O.S. (CONTAINS; ethanol, ethyl alcohol)
Transport document desc	ription			
UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS; ethanol, ethyl alcohol), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ; ethanol, ethyl alcohol), 3, II, MARINE POLLUTANT/ENVIRONM ENTALLY HAZARDOUS	UN 1993 Flammable liquid, n.o.s. (CONTAINS; ethanol, ethyl alcohol), 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ; ethanol, ethyl alcohol), 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ; ethanol, ethyl alcohol), 3, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard	d class(es)			
3	3	3	3	3
<b>1 1 1 1 1 1 1 1 1 1</b>	<b>1 1 1 1 1 1 1 1 1 1</b>	<b>Y</b> 2	<b>1 1 1 1 1 1 1 1 1 1</b>	3

4/17/2018 EN (English) 5/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID	
14.4. Packing group					
II	II	II	II	II	
14.5. Environmental h	14.5. Environmental hazards				
Dangerous for the environment : Yes Dangerous for the environment : Yes Marine pollutant : Yes Dangerous for the environment : Yes Dangerous for the environment : Yes Paris Dangerous for the environ					
No supplementary information available					

#### 14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640D

Limited quantities (ADR) : 11 : E2 Excepted quantities (ADR)

: P001, IBC02, R001 Packing instructions (ADR)

: MP19 Mixed packing provisions (ADR) Portable tank and bulk container instructions : T7

(ADR)

Portable tank and bulk container special

provisions (ADR)

: TP1, TP8, TP28

: LGBF Tank code (ADR) : FL Vehicle for tank carriage Transport category (ADR) : 2 Special provisions for carriage - Operation

(ADR)

: S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates

**33** 1993

Tunnel restriction code (ADR) : D/E

- Transport by sea

: 274 Special provisions (IMDG) Packing instructions (IMDG) P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP8, TP28

EmS-No. (Fire) : F-E : S-E EmS-No. (Spillage) Stowage category (IMDG) : B

- Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 : 5L PCA max net quantity (IATA) : 364 CAO packing instructions (IATA) CAO max net quantity (IATA) : 60L : A3 Special provisions (IATA) ERG code (IATA) 3H

- Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 274, 601, 640D

Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2 Carriage permitted (ADN) : T

4/17/2018 EN (English) 6/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

: PP, EX, A Equipment required (ADN) Ventilation (ADN) : VE01 Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : F1

Special provisions (RID) : 274, 601, 640D

Limited quantities (RID) : 1L Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

: MP19 Mixed packing provisions (RID) Portable tank and bulk container instructions : T7

(RID)

Portable tank and bulk container special

: TP1, TP8, TP28

provisions (RID)

Tank codes for RID tanks (RID) : LGBF Transport category (RID) : 2 Colis express (express parcels) (RID) : CE7 Hazard identification number (RID) : 33

## Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

# SECTION 15: Regulatory information

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

#### **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. **National regulations**

# Netherlands

SZW-lijst van kankerverwekkende stoffen : ethanol, ethyl alcohol is listed SZW-lijst van mutagene stoffen : None of the components are listed NIET-limitatieve lijst van voor de voortplanting : ethanol, ethyl alcohol is listed giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: ethanol, ethyl alcohol is listed

: ethanol, ethyl alcohol is listed

# Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Abbreviations	and acronyms:
	REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
OECD	Organisation for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

4/17/2018 7/8 EN (English)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Other information

: DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

Full text of H- and EUH-stater	ments:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
H225	Highly flammable liquid and vapour.	Highly flammable liquid and vapour.	
H302	Harmful if swallowed.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 2 H225 On basis of test data		
Aquatic Chronic 2	H411	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

4/17/2018 EN (English) 8/8