

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## ConTec etching gel

Revision date: 29.03.2017

Product code: 163-312

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

#### 1.1. Product identifier

ConTec etching gel

#### Further trade names

Article No.: 163-312-00

Set: 163-307-00

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

##### Use of the substance/mixture

Health services.

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

Company name:	DENTAURUM GmbH & Co. KG	
Street:	Turnstr. 31	
Place:	D-75228 Ispringen	
Telephone:	+49 7231 803 0	Telefax: +49 7231 803 295
e-mail:	info@dentaurum.de	
Internet:	www.dentaurum.com	

#### Further Information

Emergency telephone:  
 07:00 - 16:15 (Mo - Do), 07:00 - 13:15 (Fr) +49 7231 803 184  
 16:15 - 18:00 (Mo - Do), 13:15 - 18:00 (Fr) +49 7231 803 0

### SECTION 2: Hazards identification

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

##### Regulation (EC) No. 1272/2008

Hazard categories:  
 Skin corrosion/irritation: Skin Corr. 1B  
 Serious eye damage/eye irritation: Eye Dam. 1  
 Hazard Statements:  
 Causes severe skin burns and eye damage.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

Phosphoric acid ... %; orthophosphoric acid

Signal word: Danger

##### Pictograms:



##### Hazard statements

H314 Causes severe skin burns and eye damage.

##### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### Additional advice on labelling

As a medical device that is invasive or used in direct physical contact with the human body, the product is exempted from classification and labeling according to the Directive EC 1272/2008 (CLP) (Art. 1.5.d). Please

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see the indications in further chapters.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

phosphoric acid

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7664-38-2	Phosphoric acid ... %; orthophosphoric acid			30-45 %
	231-633-2	015-011-00-6		
	Skin Corr. 1B; H314			

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

**After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

Call a physician immediately.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe vapour. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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**Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe vapour.  
Wear suitable protective clothing and gloves.  
Avoid contact with eyes.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.  
Keep only in the original container in a cool, well-ventilated place.

**Advice on storage compatibility**

Do not store together with: Alkalis (alkalis), metal.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe vapour.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Avoid contact with eyes and skin. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink. Keep away from food, drink and animal feedingstuffs.

**Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Recommendation:

Dermatril Single-use gloves. NBR (Nitrile rubber). 0,11 mm penetration time (maximum wearing period): 480 min.  
REF 162-907-00 (7/S), REF 162-908-00 (8/M), REF 162-909-00 (9/L)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Do not breathe gas/fumes/vapour/spray.  
Filtering device (full mask or mouthpiece) with filter: A

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: Gel  
Colour: blue

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**Test method**

pH-Value:	approx. 1
<b>Changes in the physical state</b>	
Initial boiling point and boiling range:	100 °C
Vapour pressure: (at 23 °C)	20 hPa
Density (at 20 °C):	1,4 g/cm <sup>3</sup>
Water solubility:	easily soluble.
Vapour density:	< 1

**SECTION 10: Stability and reactivity****10.5. Incompatible materials**

Alkalis (alkalis).

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Acute toxicity (oral): LD50: Rat &gt; 810 mg/kg

**Irritation and corrosivity**

Irritant effect on the skin: corrosive.

Irritant effect on the eye: corrosive.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**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.

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
7664-38-2	Phosphoric acid ... %; orthophosphoric acid					
	Acute fish toxicity	LC50	138 mg/l	96 h	Gambusia affinis	

**12.2. Persistence and degradability**

none

**12.3. Bioaccumulative potential**

none

**12.4. Mobility in soil**

none

**12.5. Results of PBT and vPvB assessment**

none

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#### 12.6. Other adverse effects

none

#### **Further information**

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Advice on disposal**

Remove according to the regulations.

##### **Waste disposal number of used product**

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances  
Classified as hazardous waste.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

**14.1. UN number:** UN 1805  
**14.2. UN proper shipping name:** PHOSPHORIC ACID SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8



Classification code: C1  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 80  
 Tunnel restriction code: E

#### **Inland waterways transport (ADN)**

**14.1. UN number:** UN 1805  
**14.2. UN proper shipping name:** PHOSPHORIC ACID SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8



Classification code: C1  
 Limited quantity: 5 L  
 Excepted quantity: E1

#### **Marine transport (IMDG)**

**14.1. UN number:** UN 1805  
**14.2. UN proper shipping name:** PHOSPHORIC ACID SOLUTION

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**14.3. Transport hazard class(es):** 8**14.4. Packing group:** III

Hazard label: 8



Special Provisions: 223

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:** UN 1805**14.2. UN proper shipping name:** PHOSPHORIC ACID SOLUTION**14.3. Transport hazard class(es):** 8**14.4. Packing group:** III

Hazard label: 8



Special Provisions: A3 A803

Limited quantity Passenger: 1 L

Passenger LQ: Y841

Excepted quantity: E1

IATA-packing instructions - Passenger: 852

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 856

IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 14.

**Relevant H and EUH statements (number and full text)**

H314 Causes severe skin burns and eye damage.

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*