

## Safety Data Sheet (EC) No. 1907/2006

### 1. Product- and Company Identification

<u>Trade name:</u>	DC Etching gel / DC Etching gel MAXI, art. No. 716040 & 716045
<u>Manufacturer:</u>	DC Dental Central Großhandelsges. mbH Carl-Zeiss-Str.2 <b>D-22946 Trittau, Germany</b>
<u>Further information obtainable from:</u>	Tel.: +49 (0)4154/8437 0 Fax: +49 (0)4154/8437 33
<u>Information in case of emergency:</u>	Same as above.

### 2. Composition/information on ingredients

<b>Chemical characterization</b>					
Description: Mixture of substances listed below with nonhazardous additions.					
<b>Hazardous Ingredients:</b>					
<u>Description:</u>	<u>CAS-Nr:</u>	<u>EINECS:</u>	<u>Classification:</u>	<u>R-phrases</u>	<u>Gew.%</u>
Phosphoric acid	7664-38-2	231-633-2	C	R 43	25-50

### 3. Hazards identification

<u>Hazard description:</u>	
C	Corrosive
<u>Information concerning particular hazards for human and environment:</u>	
R 34	Causes burns.
<u>GHS label elements:</u>	
Danger 3.2/1B – Causes severe skin burns and eye damage.	
<u>Prevention:</u>	
Do not breathe dust/fume/gas/mist/vapours/spray.	
Wash thoroughly after handling.	
Wear protective gloves/protective clothing/eye protection/face protection.	
<u>Response:</u>	
IF SWALLOWED:	Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair)	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED:	Remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Specific treatment (see label).	
Wash contaminated clothing before reuse.	

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**Storage:**

Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 4. First aid measures

**General information:**

Immediately remove any clothing soiled by the product.

**After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Drink plenty of water and provide fresh air. Call for a doctor immediately.

#### 5. Fire-fighting measures

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special protective equipment for fire fighting:**

No special measures required.

#### 6. Accidental release measures

**Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

**Environmental-protection measures:**

Do not allow to enter sewers/ surface or ground water.

**Procedures for cleaning / absorption:**

Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

#### 7. Handling and storage

**Handling:**

**Information for safe handling:**

Open and handle receptacle with care.

**Information about fire - and explosion protection:**

No special measures required.

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### Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep container tightly sealed.

### 8. Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

7664-38-2 phosphoric acid

WEL Long-term value: 1 mg/m<sup>3</sup>

WEL Short-term value: 2 mg/m<sup>3</sup>

Additional information:

The lists valid during the making were used as basis.

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

Eye protection: Tightly sealed goggles

Respiratory protection: Not required.

Hand protection: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.  
Material of gloves:  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
Penetration time of glove material:  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
As protection from splashes gloves made of the following materials are suitable:  
Nitrile rubber (NBR), natural rubber (NR)

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### 9. Physical and chemical properties

<u>Form:</u>	Highly viscous
<u>Colour:</u>	Blue
<u>Odour:</u>	Odourless
<u>Melting point:</u>	Undetermined
<u>Boiling Point</u>	100°C
<u>Flash point:</u>	>100°C
<u>Flammability (solid, gaseous):</u>	Product is not flammable.
<u>Danger of explosion:</u>	Product does not present an explosion hazard.
<u>Density at 20° C:</u>	1.35 g/cm <sup>3</sup>
<u>Solubility in water:</u>	soluble
<u>pH-value at 20°C:</u>	<0.5
<u>Solids content:</u>	6.5%

### 10. Stability and reactivity

<u>Conditions to be avoided:</u>	No decomposition if used according to specifications.
<u>Dangerous reactions</u>	No dangerous reactions known.
<u>Dangerous decomposition products:</u>	No dangerous decomposition products known.

### 11. Toxicological information

<u>Primary irritant effect on the skin:</u>	Caustic effect on skin and mucous membranes.
<u>Primary irritant effect on the eye:</u>	Strong caustic effect.
<u>Sensitisation:</u>	No sensitizing effects known.
<u>Additional toxicological information:</u>	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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### 12. Ecological information

Information about elimination (persistence and degradability):

Easily biodegradable

#### **Behaviour in environmental systems**

Mobility and bioaccumulation potential:

Does not accumulate in organisms

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

### 13. Disposal considerations

#### **Product:**

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:

06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES

06 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of acids

06 01 04 phosphoric and phosphorous acid

#### **Uncleaned packaging:**

Recommendation:

Disposal must be made according to official regulations.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

### 14. Transport information

#### **Land transport ADR/RID (cross-border)**

ADR/RID class: 8 Corrosive substances

Danger code (Kemler): 80

UN-Number: 1805

Packaging group: III

Hazard label: 8

Description of goods: 1805 PHOSPHORIC ACID, SOLUTION

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### Maritime transport IMDG:

IMDG Class: 8  
UN Number: 1805  
Label: 8  
Packaging group: III  
EMS Number: F-A,S-B  
Marine pollutant: No  
Proper shipping name: PHOSPHORIC ACID, SOLUTION

### Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8  
UN/ID Number: 1805  
Label: 8  
Packaging group: III  
Proper shipping name: PHOSPHORIC ACID, SOLUTION  
UN "Model Regulation": UN1805, PHOSPHORIC ACID, SOLUTION, 8, III

### 15. Regulatory information

#### Labelling according EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

#### Identification-letter and hazard denotation of the product:

C Corrosive

#### R-Phrases:

R 34 Causes burns.

#### S-Phrases:

S 25 Avoid contact with eyes.  
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical device.  
S 37/39 Wear suitable gloves and eye/ face protection.  
S 60 This material and its container must be disposed o as hazardous waste.

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### 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases:

R 34 Causes burns.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals