

# EU Safety Data Sheet

Total Etch



Date of issue / Reference

11.07.2006 hot

Replaces version of

24.03.2005

Date of printing

11.07.2006 **Sheet No. 1262**

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Company

Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan  
Principality of Liechtenstein

## 1 Commercial product name and supplier

- 1.1 Commercial product name / Designation **Total Etch**
- 1.2 Application / Use Etching gel
- 1.3 Producer Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan  
Fürstentum Liechtenstein
- 1.4 Supplier
- 1.5 TOX emergency number Emergency-Call: +423 / 235 35 35 or 373 40 40  
Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein

## 2 Composition

- 2.1 Chemical characterization Phosphoric acid - Gel
- 2.2 Hazardous components  
CAS No. 7664-38-2 37 % Phosphoric acid, Solution in Water  
C: Corrosive. R34: Causes burns.
- 2.3 Further information None.

## 3 Hazards identification

Corrosive.

## 4 First aid measures

- 4.1 Eye contact Irrigate with flowing water immediately and continuously for 15 minutes. Consult a physician.
- 4.2 Skin contact Wash thoroughly with soap and water.
- 4.3 Ingestion After ingestion call a physician immediately and show this safety data sheet. Do not induce vomiting. Give large amounts of water.
- 4.4 Inhalation Remove to fresh air. If respiratory irritation is experienced, call a physician.
- 4.5 Further information Remove contaminated clothing.

## 5 Fire-fighting measures

- 5.1 Suitable extinguishing media Non-combustible product.
- 5.2 Extinguishing media to avoid Not required since not combustible.
- 5.3 Further information Cool containers in the vicinity of the blaze using a water spray.

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## 6 Accidental release measures

Clean area with large amounts of water.  
Prevent skin and eye contact.  
Dispose of according to local and national regulations.  
Clean up with absorbent material.

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## 7 Handling and storage

- 7.1 Handling Only adequately trained personnel should handle this product.  
Use only in a well ventilated area.
- 7.2 Industrial hygiene Usual hygienic measures for dental practice.  
Practice care and caution to avoid skin and eye contact.  
Keep out of reach of children.
- 7.3 Storage Cool storage of (2-8°C / 36-46 °F) is indicated for larger stock.  
Store at 2-28 °C / 36-82 °F
- 7.4 Place of storage Do not store in open sunshine.
- 7.5 Fire- and explosion-protection Keep away from heat source.  
Not combustible.
- 

## 8 Exposure controls / Personal protection

- 8.1 Technical measures Use only with adequate ventilation.
- 8.2 Control of threshold limits MAK-Value = TLV (USA): 1 mg/m<sup>3</sup>
- 8.3 Personal protective equipment
- 8.3.1 Respiratory protection Respiratory Protection.
- 8.3.2 Hand protection Rubber gloves.
- 8.3.3 Eye protection Eye wash fountain should be located in immediate work area.  
Safety goggles or face-shield.
- 8.3.4 Other Remove contaminated clothing immediately, wash skin area with  
water, and launder clothing.
- 

## 9 Physical and chemical properties

- 9.1 Appearance liquid
- 9.2 Colour blue
- 9.3 Odour practically odourless
- 9.4 Change of physical state Test method:  
not applicable
- 9.5 Density not determined

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9.6 Vapour pressure  
not applicable

9.7 Viscosity  
not known

9.8 Solubility  
Solubility in  
soluble

9.9 pH < 1

9.10 Flash point  
not flammable

9.11 Ignition temperature  
not applicable

9.12 Explosion limits  
Lower:  
Upper:  
not applicable

9.13 Further information  
None.

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## 10 Stability and reactivity

10.1 Thermal decomposition  
None, if used in accordance to instructions.

10.2 Hazardous decomposition products  
None under normal conditions of storage and use.

10.3 Hazardous reactions  
Avoid excessive heat and direct sunlight.

10.4 Further information  
None.

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## 11 Toxicological information

11.1 Acute toxicity  
Ingestion may cause burns of mouth and throat.  
May cause severe eye irritation. Eye Contact: (see 4.1., First aid measures).  
Due to the pH of this material, it is assumed that exposure will cause skin burns.  
The oral LD50 for rats is 4135 mg/kg

11.2 Subacute / Chronic toxicity  
not known

11.3 Further information  
None.

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## 12 Ecological information

The product must not enter effluent, ground water, surface water or the soil.  
German "Wassergefährdungs Klasse (WGK)": 1

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## 13 Disposal considerations

Take to a special waste incineration plant, in line with local regulations.

13.1 EU waste key

16 05 04

## 14 Transport information

14.1 Transport at land

ADR 8 RID 8

UN Number 1805 Kemler Number ---

Packing Group III

Proper shipping name Phosphoric acid solution

14.2 Transport at sea

ADNR 8 IMDG 32-04

UN Number 1805

EMS F-E, S-B MFAG 700

Packing Group III

Proper shipping name Phosphoric acid, solution

14.3 Air transport

ICAO / IATA-DGR Class 8

UN Number 1805

Proper shipping name Phosphoric acid, solution

Subsidiary Risk ---

Labels Corrosive

Packing Group III

Passenger airplane Packing Instructions 819

max. 5 L

Cargo Airplane Packing Instructions 821

max. 60 L

14.4 Further information

Sample shipment not allowed by mail.

## 15 Regulatory information

The product is a medical device according to the EC-directive 93/42/EEC.

This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.

This product requires classification according to the criteria of the "Gefahrstoffverordnung".

15.1 UN number

1805

15.2 National regulations

15.3 EU number

231-633-2

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15.4 Hazard symbols

**C**



15.5 Hazard designation

C: Corrosive. Contains Phosphoric acid, Solution in Water.

15.6 Risk phrases

**R: 34**

34 Causes burns.

15.7 Safety phrases

**S: 2-26-45-1/2-37/39**

2 Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

45 In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).

1/2 Keep locked up and out of reach of children.

37/39 Wear suitable gloves and eye/face protection.

15.8 MAK value

1 mg/m<sup>3</sup>

15.9 BVD classification (CH)

15.10 VbF (D)

15.11 Further information

None.

**16 Other information**

Version: 4

Changes: 14

*The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.*