

# SAFETY DATA SHEET

## TOKUYAMA ETCHING GEL HV

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

#### 1.1. Product identifier

**Product name** TOKUYAMA ETCHING GEL HV

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

**Identified uses** Phosphoric acid etching gel. For dental professionals only.

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

**Supplier** Tokuyama Dental Italy S.r.l.  
Via Chizzalunga, 1,  
36066 Sandrigo, Vicenza, Italy  
TEL: +39-0444-659650  
FAX: +39-0444-750345

**Contact person** <http://www.tokuyama-dental.com/tdc/contact.html>

**Manufacturer** Tokuyama Dental Corporation  
38-9, Taitou 1-chome, Taitou-ku, Tokyo  
110-0016, Japan  
TEL: +81-3-3835-2261  
FAX: +81-3-3835-2265

#### 1.4. Emergency telephone number

**Emergency telephone** Regional Medicines and Poisons Information Centre NI,  
Pharmacy Department  
Royal Hospital Suite, Grosvenor Road, Belfast  
Emergency telephone: 844 892 0111  
Telephone: +44 28 90 63 2032  
Fax: +44 28 90 24 8030  
E-mail address: [nirdic.nirdic@belfasttrust.hscni.net](mailto:nirdic.nirdic@belfasttrust.hscni.net)

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Skin Corr. 1B - H314: Eye Dam. 1 - H318

**Environmental hazards** Not Classified

#### 2.2. Label elements

##### Pictogram



**Signal word** Danger

**Hazard statements** H314 Causes severe skin burns and eye damage.

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**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.  
P310 Immediately call a POISON CENTER/ doctor.  
P501 Dispose of contents/ container in accordance with local regulations.

**Contains** PHOSPHORIC ACID 39%

**Supplementary precautionary statements** P260 Do not breathe vapour/ spray.  
P264 Wash contaminated skin thoroughly after handling.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P321 Specific treatment (see medical advice on this label).  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.

## 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>PHOSPHORIC ACID 39%</b>	<b>90-100 %</b>
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CAS number: 7664-38-2	EC number: 231-633-2
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#### Classification

Skin Corr. 1B - H314

Eye Dam. 1 - H318

<b>POLY(OXY-1,2-ETHANEDIYL),<math>\alpha</math>-HYDRO-<math>\omega</math>-HYDROXY-ETHANE-1,2-DIOL, ETHOXYLATED</b>	<b>&lt;1%</b>
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CAS number: 25322-68-3	EC number: 500-038-2
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#### Classification

Eye Irrit. 2 - H319

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information** Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Inhalation** Move affected person to fresh air at once.

**Ingestion** Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

**Skin contact** Wash skin thoroughly with soap and water. Wash contaminated clothing before reuse.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

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

**Skin contact** Causes severe skin burns and eye damage.

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**Eye contact** Causes serious eye damage.

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

**Notes for the doctor** No specific recommendations.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** Extinguish with the following media: Foam. Carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

**Specific hazards** Irritating gases or vapours. The product is not flammable. In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.

**Hazardous combustion products** No known hazardous decomposition products.

### **5.3. Advice for firefighters**

**Protective actions during firefighting** Avoid breathing fire gases or vapours.

**Special protective equipment for firefighters** Wear chemical protective suit.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### **6.2. Environmental precautions**

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.4. Reference to other sections**

**Reference to other sections** For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet. All handling should only take place in well-ventilated areas. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

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

**Storage precautions** Keep away from heat, sparks and open flame. Store in a cool and well-ventilated place. Protect from light. Store at temperatures between 0°C/25°F and 32°C/77°F.

**Storage class** Chemical storage.

### **7.3. Specific end use(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: Exposure Controls/personal protection**

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## 8.1. Control parameters

### Occupational exposure limits

#### **PHOSPHORIC ACID 39%**

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

## 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Provide adequate general and local exhaust ventilation.
<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles.
<b>Hand protection</b>	Wear protective gloves. It is recommended that chemical-resistant, impervious gloves are worn.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do not eat, drink or smoke when using this product.

## **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Coloured gel
<b>Colour</b>	Red
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Technical impossibility to obtain the data.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Partition coefficient</b>	Not available.

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Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not available.

### 9.2. Other information

Other information	Not available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Strong acids. See the other subsections of this section for further details.
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### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air. Avoid contact with the following materials: sodium hypochlorite. Warning! Do not use together with other products. May release dangerous gases (chlorine).
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### 10.4. Conditions to avoid

Conditions to avoid	Keep away from heat, sparks and open flame. Avoid exposure to high temperatures or direct sunlight.
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### 10.5. Incompatible materials

Materials to avoid	Some metals. sodium hypochlorite.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Heating may generate the following products: Toxic gases or vapours.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

Notes (oral LD <sub>50</sub> )	Not available.
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#### Acute toxicity - dermal

Notes (dermal LD <sub>50</sub> )	Not available.
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#### Acute toxicity - inhalation

Notes (inhalation LC <sub>50</sub> )	Not available.
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#### Skin corrosion/irritation

Skin corrosion/irritation	Causes severe burns.
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#### Serious eye damage/irritation

Serious eye damage/irritation	Causes severe skin burns and eye damage.
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#### Respiratory sensitisation

Respiratory sensitisation	Not available.
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## TOKUYAMA ETCHING GEL HV

### Skin sensitisation

Skin sensitisation Not available.

### Germ cell mutagenicity

Genotoxicity - in vitro Not available.

Genotoxicity - in vivo Not available.

### Carcinogenicity

Carcinogenicity Not available.

### Reproductive toxicity

Reproductive toxicity - fertility Not available.

Reproductive toxicity - development Not available.

### Specific target organ toxicity - single exposure

STOT - single exposure Not available.

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not available.

### Aspiration hazard

Aspiration hazard Not available.

## SECTION 12: Ecological Information

Ecotoxicity No data on possible environmental effects have been found.

### 12.1. Toxicity

Acute toxicity - fish Not available.

Acute toxicity - aquatic invertebrates Not available.

Acute toxicity - aquatic plants Not available.

### 12.2. Persistence and degradability

Persistence and degradability No data available.

### 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

### 12.4. Mobility in soil

Mobility No information available.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

Other adverse effects Not known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

# TOKUYAMA ETCHING GEL HV

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

### 14.1. UN number

UN No. (ADR/RID)	1805
UN No. (IMDG)	1805
UN No. (ICAO)	1805

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	PHOSPHORIC ACID, SOLUTION
Proper shipping name (IMDG)	PHOSPHORIC ACID, SOLUTION
Proper shipping name (ICAO)	PHOSPHORIC ACID, SOLUTION
Proper shipping name (ADN)	PHOSPHORIC ACID, SOLUTION

### 14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID label	8
IMDG class	8
ICAO class/division	8

### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

EmS	F-A, S-B
Emergency Action Code	2R
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

# TOKUYAMA ETCHING GEL HV

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

EU legislation (EC) No 1907/2006 (REACH).  
(EC) No 1272/2008 (CLP).  
(EU) No 2015/830.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**Classification procedures according to Regulation (EC) 1272/2008** Skin Corr. 1 - H314: Calculation method. Eye Dam. 1 - H318: Calculation method.

**Training advice** Ensure operatives are trained to minimise exposure. Only trained personnel should use this material.

**Revision comments**

**Revision date** 15/09/2018

**Revision** 3

**Hazard statements in full** H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.

The information which is contained in this document is based on available data. However, as such has been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. Tokuyama Dental Corp. has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such information.