

# 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** 【Medical device】 Phosphoric acid etching gel. For dental professionals only.

**Uses Not Recommended** Use only for intended applications.

#### 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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<b>Precautionary statements</b>	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.
<b>Contains</b>	PHOSPHORIC ACID 39%
<b>Supplementary precautionary statements</b>	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.
<b>2.3. Other hazards</b>	This product does not contain any substances classified as PBT or vPvB. Endocrine disrupting properties: Not known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>PHOSPHORIC ACID 39%</b>	<b>90-100 %</b>
CAS number: 7664-38-2	EC number: 231-633-2
<b>Classification</b> 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>
CAS number: 25322-68-3	EC number: 500-038-2
<b>Classification</b> 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

<b>General information</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air at once.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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

<b>Skin contact</b>	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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<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not available.

## 9.2. Other information

<b>Other information</b>	Not available.
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## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

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

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

<b>Possibility of hazardous reactions</b>	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

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

<b>Materials to avoid</b>	Some metals. sodium hypochlorite.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	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 - Ingestion**

Calculation method : Not classified.

#### **Acute toxicity - Skin Contact**

Calculation method : Not classified. No data.

#### **Acute toxicity - Inhalation**

Calculation method : Not classified. No data.

#### **Skin corrosion/irritation**

Calculation method : Causes severe skin burns and eye damage.

#### **Serious eye damage/irritation**

Calculation method : Causes severe skin burns and eye damage.

#### **Skin sensitization**

Calculation method : Not classified.

#### **Respiratory sensitization**

Calculation method : Not classified.

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## **Germ cell mutagenicity**

Calculation method : Not classified.

## **Carcinogenicity**

Calculation method : Not classified.

## **Reproductive toxicity**

Calculation method : Not classified.

## **Lactation**

Calculation method : Not classified.

## **STOT - single exposure**

Calculation method : Not classified.

## **STOT - repeated exposure**

Calculation method : Not classified.

## **Aspiration hazard**

Calculation method : Not classified. Not applicable.

## **11.2 Other information**

Route(s) of entry Skin, Eyes, Ingestion, Inhalation, Health effects: See section 4.2.

Endocrine disrupting properties: Not known.

## **SECTION 12: Ecological Information**

**Ecotoxicity** No data on possible environmental effects have been found

### **12.1 Toxicity**

**Toxicity - Aquatic invertebrates** Not classified.

**Toxicity - Fish** Not classified.

**Toxicity - Algae** Not classified.

**Toxicity - Sediment Compartment** Not classified.

**Toxicity - Terrestrial Compartment** Not classified.

### **12.2 Persistence and degradability**

Not known.

### **12.3 Bioaccumulative potential**

Not known.

### **12.4 Mobility in soil**

Not known.

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

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

### **12.6 Endocrine disrupting properties**

Not known.

### **12.7 Other adverse effects**

Not known.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

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

Must not be disposed of together with household garbage. Dispose at suitable refuse site. Do not allow to enter drains, sewers or watercourses. Empty containers may retain some product residues and hence be potentially hazardous.

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## 13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

## 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

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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** 15/12/2022

**Revision** 4

**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.