

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

075898275

N/A

**Safety Data Sheet****Phosphoric Acid Etchants**

<b>1.0 Commercial Product Name and Supplier</b>																																								
1.1	Commercial product name / designation Trade Names																																							
	<b>Phosphoric Acid Etching Gels</b> <i>Etch-Rite</i> , 38% Phosphoric Acid Etching Gel <i>Etch Royale</i> , 37% Phosphoric Acid Etching Gel <i>Semi-Gel</i> , 35% Phosphoric Acid <i>Etch-All</i> , 10% Phosphoric Acid Etching Gel																																							
1.2	Application / Use																																							
	Dental etching gel for use by dental professional only.																																							
1.2.2	SIC																																							
	851 Human health activity																																							
1.2.3	Use Category																																							
	55																																							
1.3	Manufacturer, Importer																																							
1.3.1	Manufacturer																																							
	<b>Pulpdent Corporation</b> 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA																																							
	Telephone: 1 617 926-6666; Fax: 1 617 926-6262 Email: <a href="mailto:Pulpdent@pulpdent.com">Pulpdent@pulpdent.com</a>																																							
1.4	Emergency Telephone Number																																							
	1-800-535-5053 (24 Hour Emergency / USA)																																							
1.5	Authorized European Representative International Business Solutions Ltd. 54 Mayfield Ridge Hatch Warren, Basingstoke, RG22 4RS UK																																							
	Tel: 07989 407479; Fax: 01256 350330 Email: <a href="mailto:s.williams5@btconnect.co.uk">s.williams5@btconnect.co.uk</a>																																							
<b>2.0 Hazards Identification</b>																																								
<b>2.1 Classification</b>																																								
2.1.1	<b>Classification according to Regulation (EC) No. 1272/2008 [CLP]</b>																																							
	<table border="1"> <thead> <tr> <th></th> <th><u>Hazard Class</u></th> <th><u>Hazard Category</u></th> <th><u>Hazard Statement</u></th> </tr> </thead> <tbody> <tr> <td rowspan="2"><i>Etch-Rite</i>, 38% Phosphoric Acid Etching Gel</td> <td>Skin corrosion</td> <td>1B</td> <td>H314</td> </tr> <tr> <td>Eye irritation</td> <td>2</td> <td>H319</td> </tr> <tr> <td rowspan="2"><i>Etch Royale</i>, 37% Phosphoric Acid Etching Gel</td> <td>Skin corrosion</td> <td>1B</td> <td>H314</td> </tr> <tr> <td>Eye irritation</td> <td>2</td> <td>H319</td> </tr> <tr> <td rowspan="2"><i>Semi-Gel</i>, 35% Phosphoric Acid</td> <td>Skin corrosion</td> <td>1B</td> <td>H314</td> </tr> <tr> <td>Eye irritation</td> <td>2</td> <td>H319</td> </tr> <tr> <td rowspan="2"><i>Etch-All</i>, 10% Phosphoric Acid Etching Gel</td> <td>Skin irritation</td> <td>2</td> <td>H319</td> </tr> <tr> <td>Eye irritation</td> <td>2</td> <td>H319</td> </tr> <tr> <td rowspan="2"><i>Etch-Rite</i>, 38% Phosphoric Acid Etching Gel</td> <td>Skin corrosion</td> <td>1B</td> <td>H314</td> </tr> <tr> <td>Eye irritation</td> <td>2</td> <td>H319</td> </tr> </tbody> </table>		<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statement</u>	<i>Etch-Rite</i> , 38% Phosphoric Acid Etching Gel	Skin corrosion	1B	H314	Eye irritation	2	H319	<i>Etch Royale</i> , 37% Phosphoric Acid Etching Gel	Skin corrosion	1B	H314	Eye irritation	2	H319	<i>Semi-Gel</i> , 35% Phosphoric Acid	Skin corrosion	1B	H314	Eye irritation	2	H319	<i>Etch-All</i> , 10% Phosphoric Acid Etching Gel	Skin irritation	2	H319	Eye irritation	2	H319	<i>Etch-Rite</i> , 38% Phosphoric Acid Etching Gel	Skin corrosion	1B	H314	Eye irritation	2	H319
	<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statement</u>																																					
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<i>Etch Royale</i> , 37% Phosphoric Acid Etching Gel	Skin corrosion	1B	H314																																					
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<i>Semi-Gel</i> , 35% Phosphoric Acid	Skin corrosion	1B	H314																																					
	Eye irritation	2	H319																																					
<i>Etch-All</i> , 10% Phosphoric Acid Etching Gel	Skin irritation	2	H319																																					
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	Eye irritation	2	H319																																					
2.1.2	Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)																																							
	Corrosive (C); R 34; R 36 / 37 / 38																																							

**Safety Data Sheet****Phosphoric Acid Etchants****2.2 Label Elements**

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Hazard Pictograms

Signal Word: **DANGER****Restricted to use by dental professional only.****Hazard Statements**

H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

**Precautionary Statements**

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves, clothing and eye/face protection.

P301 + P330 + P331: If swallowed, rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: If on skin (or hair), remove all contaminated clothing. Rinse skin with water.

P363: Wash contaminated clothing before reuse.

P310: Immediately call a Poison Center or doctor/physician.

P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until pH of tears is 7.

**3.0 Composition**

3.1 Chemical characterization of the preparation Phosphoric acid in a gel matrix.

3.2 Hazardous ingredients

CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1278/2008 (CLP).
7664-38-2	Phosphoric Acid	<i>Etch-Rite</i> , 38%	Corrosive (C) R34; R36/ 37/38	Skin corrosion; 1B Eye irritant, 2
		<i>Etch Royale</i> , 37%	Corrosive (C) R34; R36/ 37/38	Skin corrosion, 1B Eye irritant, 2
		<i>Semi-Gel</i> , 35%	Corrosive (C) R34; R36/ 37/38	Skin corrosion, 1B Eye irritant, 2
		<i>Etch-All</i> , 10%	Corrosive (C) R34; R36/ 37/38	Skin irritant, 2 Eye irritant, 2

**Safety Data Sheet****Phosphoric Acid Etchants**

<b>4.0 First Aid Measures</b>		
4.1	General Information	May cause burns or irritation to eyes, skin or mucous membranes. Acute effects may be delayed. Show this safety data sheet to medical personnel. Get medical attention in case of uncertainty.
4.2	Eye Contact	Remove contact lenses. Keep eyelids apart and flush with running water for 15+ minutes or until pH of tears is 7. Get medical attention.
4.3	Skin Contact	Immediately flush skin with running water for 15 minutes. Get medical attention for persistent irritation or burns.
4.4	Ingestion	Rinse mouth with water. Do not induce vomiting. Give water to dilute. Get immediate medical attention. Never give anything by mouth to an unconscious person.
4.5	Inhalation	Move to fresh air. If necessary, administer oxygen and/or artificial respiration and seek medical attention.
4.6	Precautions for first responders	Ventilate the area. Wear safety glasses, gloves and lab coat.
4.7	Information for physicians	
	Symptoms	Irritation, pain or redness in eyes, mucous membranes or skin. Acute effects may be delayed so continued monitoring of the patient is indicated.
	Hazards	May cause burns or irritation to eyes, skin or mucous membranes. Acute effects may be delayed.
	Treatment	Same as above under First Aid.
<b>5.0 Fire Fighting Measures</b>		
5.1	Suitable extinguishing media	Not a fire hazard. Use water spray to keep fire-exposed containers cool. Extinguish fire with agent suitable for surrounding fire.
5.2	Extinguishing media to avoid	None
5.3	Special exposure hazards in a fire	Phosphoric acid can react with metals to liberate hydrogen, a flammable gas. Combustion by-products include oxides of phosphorus.
5.4	Special protective equipment for fire-fighters	A self-contained breathing apparatus should be worn by firefighting personnel.
<b>6.0 Accidental Release Measures</b>		
6.1	Personal precautions.	Wear chemical splash goggles and gloves.
6.2	Environmental precautions	Avoid releasing large quantities into the environment as phosphoric acid may affect pH of water or soil.
6.3	Method for clean up	For small quantities (as in this product): Wear safety glasses, lab coat and gloves. Absorb or wipe up spill with dry paper towels. Place all material in covered chemical waste container for disposal. Flush spill area with water.
<b>7.0 Handling and Storage</b>		

**Safety Data Sheet****Phosphoric Acid Etchants**

7.1	Handling	For use by dental professionals only. Wear safety glasses and gloves; wash hands after use. Avoid unnecessary exposure. Follow good hygiene practices. Do not smoke, eat or drink while using. Protect soft tissue from etchant during intraoral procedures.
7.2	Storage	Remove applicator tip after use. Keep tightly capped in original container. Store at cool room temperature. Avoid extremes of temperature (>27°C/80°F, <5°C/40°F), alkalis, sulfites, sulfides and most metals.
7.3	Specific uses	Dental etchant
<b>8.0 Exposure Controls / Personal Protection</b>		
8.1	Exposure limit values	TWA: 1 mg/m <sup>3</sup> TLV: 3 mg/m <sup>3</sup>
8.2	Exposure controls	No special equipment required under normal conditions of use of this product in the quantity provided.
8.2.1	Occupational exposure controls	No special equipment required under normal conditions of use of this product in the quantity provided.
8.2.1.1	Respiratory protection	None required. Good general ventilation is sufficient to control airborne vapors.
8.2.1.2	Hand protection	No special requirements other than surgical gloves.
8.2.1.3	Eye protection	No special requirements other than the usual safety glasses.
8.2.1.4	Skin protection	No special requirements. Good personal hygiene, wearing a lab coat should protect dental staff from unnecessary exposure to etchant.
8.2.1.5	Other controls	Emergency eye wash fountain should be available. Protect soft tissue from etchant during intraoral procedures. Wash hands after use.
8.2.2	Environmental exposure controls	Avoid releasing large quantities of phosphoric acid into the environment as phosphoric acid may affect pH of water or soil.
<b>9.0 Physical and Chemical Properties</b>		
9.1	Appearance / Color	
9.1.1	Color / Physical state	Etch-Rite: Medium blue gel. Etch-Royale: Dark blue gel. Semi-Gel: Green, thickened liquid. Etch-All: Clear purple gel.
9.1.2	Odor	Mild, characteristic
9.2	Important health, safety and environmental information	
9.2.1	pH	pH 1
9.2.2	Boiling point	135°C
9.2.3	Flash point	Not combustible
9.2.4	Flammability (solid, gas)	Not combustible
9.2.5	Explosive properties	Not applicable
9.2.6	Oxidizing properties	Not determined
9.2.7	Vapor pressure	2.933 mbar / Id: C

**Safety Data Sheet****Phosphoric Acid Etchants**

9.2.8	Specific gravity	Etch-Rite: 1.380 Etch-Royale: 1.300 Etch-All: 1.575 Semi-Gel: 1.300
9.2.9	Solubility in water	Complete
9.2.10	Partition coefficient	Not determined
9.2.11	Viscosity	Not determined
9.2.12	Vapor density	Not determined
9.2.13	Evaporation rate	Not determined
<b>10.0 Stability and reactivity</b>		
10.1	Conditions to avoid	Not applicable
10.2	Materials to avoid	Avoid contact with materials such as sulfides and sulfites that could release toxic gases. Avoid strong alkalis because high heat of reaction can generate steam. Avoid most metals because phosphoric acid can react to liberate hydrogen, a flammable gas.
10.3	Hazardous decomposition products	Avoid contact with materials such as sulfides and sulfites that could release toxic gases. Avoid strong alkalis because high heat of reaction can generate steam. Avoid most metals because phosphoric acid can react to liberate hydrogen, a flammable gas.
10.4	Further information	Stable under normal conditions of use and storage.
<b>11.0 Toxicological information</b>		
11.1	Acute toxicity	Not toxic
11.2	Irritation and corrosiveness	Corrosive. May cause burns or irritation to eyes, skin, mouth, throat or gastrointestinal tract. Not expected to be an inhalation hazard unless product is misted or heated at high temperatures.
11.3	Sensitization	Not applicable.
11.4	Sub-acute, sub-chronic and prolonged toxicity	None known.
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	Not considered a carcinogen, mutagen, teratogen or reproductive toxin.
11.6	Empirical data	Not available
11.7	Clinical Experience	Using phosphoric acid etchants to prepare teeth for bonding procedures is a well-established (more than 20 years), industry-accepted, dental procedure. Etching enamel with phosphoric acid is safe and effective treatment in the hands of a dental professional.
<b>12.0 Ecological Information</b>		
12.1	Ecotoxicity	No specific information available. Use according to good working practices. Avoid release into the environment as it may cause pH variation.

**Safety Data Sheet****Phosphoric Acid Etchants**

<b>13.0</b>	<b>Disposal Considerations</b>	
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.
<b>14.0</b>	<b>Transport Information</b>	
14.1	UN Number	1805
14.2	Technical name	Phosphoric acid
14.3	Packing group	Packing Group III
14.4	IATA class	Class 8, Corrosive
<b>15.0</b>	<b>Regulatory Information</b>	
15.1	EU	Class IIA medical devices under MDD 93/42/EEC.
15.2	US FDA	Class II medical devices
15.3	Health Canada	Class II medical devices
<b>16.0</b>	<b>Other information</b>	
16.1	List of relevant R phrases	R 34: Causes burns R 36 / 37 / 38: Irritating to eyes, respiratory system and skin.
16.2	Hazard Statements	H314: Causes severe skin burns and eye damage. H319: Causes serious eye irritation.
16.3	Precautionary Statements	P264: Wash hands thoroughly after handling. P280: Wear protective gloves, clothing and eye/face protection. P301 + P330 + P331: If swallowed, rinse mouth. Do NOT induce vomiting. P303 + P361 + P353: If on skin (or hair), remove all contaminated clothing. Rinse skin with water. P363: Wash contaminated clothing before reuse. P310: Immediately call a Poison Center or doctor/physician. P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until pH of tears is 7.
16.4	Restrictions on use	Dental etchants are to be sold to and used by dental professionals.
16.5	Further information	The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

## Safety Data Sheet

### Phosphoric Acid Etchants


16.6	Sources of key data	National Institute for Occupational Safety (NIOSH) Occupational Safety and Health Administration (OSHA)  Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH).  Guidance on the compilation of safety data sheets. Version 1.1; December 2011. European Chemicals Agency
16.7	Information which has been added, deleted or revised.	This Safety Data Sheet has been revised to meet the requirements of the GHS SDS format and Regulations (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH). Specifically, Sections 2.1, 2.2, 3.2, 16.2, 16.3 have been modified.

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## Safety Data Sheet

### Semi-Gel Etchant

1.0 Commercial Product Name and Supplier			
1.1	Commercial product name / designation Trade Names	<b>Semi-Gel</b> , 35% Phosphoric Acid	
1.2	Application / Use	Dental etching gel for use by dental professional only.	
1.2.2	SIC	851 Human health activity	
1.2.3	Use Category	55	
1.3	Manufacturer <b>Pulpdent Corporation</b> 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926-6666; Fax: 1 617 926-6262 Email: <a href="mailto:Pulpdent@pulpdent.com">Pulpdent@pulpdent.com</a>	
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour Emergency / USA)	
1.5	EU Authorized Representative	Advena Limited Tower Business Centre, 2nd Floor, Tower Street, Swatar, BKR 4013 Malta	
2.0 Hazards Identification			
2.1	Classification		
2.1.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	<u>Hazard Class</u> Skin corrosion	<u>Hazard Category</u> 1B
2.1.2	Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)	Corrosive (C); R 34; R36/37/38	
2.2	<b>GHS Label Elements</b> Hazard Pictograms		
			
	Signal Word: <b>DANGER</b>		
	<b>Restricted to use by dental professional only.</b>		
	<b>Hazard Statements</b>		
	H314: Causes severe skin burns and eye damage.		
	H315: Causes skin irritation.		
	H319: Causes serious eye irritation.		
	<b>Precautionary Statements</b>		
	P264: Wash hands thoroughly after handling.		
	P280: Wear protective gloves, clothing and eye/face protection.		
	P301 + P330 + P331: If swallowed, rinse mouth. Do NOT induce vomiting.		
	P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until pH of tears is 7.		
	P303 + P361 + P353: If on skin (or hair), remove all contaminated clothing. Rinse skin with water.		
	P363: Wash contaminated clothing before reuse.		

**Safety Data Sheet****Semi-Gel Etchant**

P310: Immediately call a Poison Center or doctor/physician.

<b>3.0 Composition</b>				
3.1	Chemical characterization of the preparation	Phosphoric acid in a semi-gel matrix.		
3.2	Hazardous ingredients			
	CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC
	7664-38-2	Phosphoric Acid	35%	R34; R36/37/38
	67-63-0	Isopropanol	14%	Flammable (F); Irritant (Xi). R11- 36/ 37/38-66
				Classification per Regulation (EC) No.1272/2008 (CLP).
				Skin corrosion, 1B
				Flammable liquid, 2
				Eye irritation, 2
				STOT SE, 3
				Skin irritation, 2.
<b>4.0 First Aid Measures</b>				
4.1	General Information	May cause burns or irritation to eyes, skin or mucous membranes. Acute effects may be delayed. Show this safety data sheet to medical personnel. Get medical attention in case of uncertainty.		
4.2	Eye Contact	Remove contact lenses. Keep eyelids apart and flush with running water for 15+ minutes or until pH of tears is 7. Get medical attention.		
4.3	Skin Contact	Immediately flush skin with running water for 15 minutes. Get medical attention for persistent irritation or burns.		
4.4	Ingestion	Rinse mouth with water. Do not induce vomiting. Give water to dilute. Get immediate medical attention. Never give anything by mouth to an unconscious person.		
4.5	Inhalation	Move to fresh air. If necessary, administer oxygen and/or artificial respiration and seek medical attention.		
4.6	Precautions for first responders	Ventilate the area. Wear safety glasses, gloves and lab coat.		
4.7	Information for physicians			
	Symptoms	Irritation, pain or redness in eyes, mucous membranes or skin. Acute effects may be delayed so continued monitoring of the patient is indicated.		
	Hazards	May cause burns or irritation to eyes, skin or mucous membranes. Acute effects may be delayed.		
	Treatment	Same as above under First Aid.		
<b>5.0 Fire Fighting Measures</b>				
5.1	Suitable extinguishing media	Not a fire hazard. Use water spray to keep fire-exposed containers cool. Extinguish fire with agent suitable for surrounding fire.		
5.2	Extinguishing media to avoid	None		
5.3	Special exposure hazards in a fire	Phosphoric acid can react with metals to liberate hydrogen, a flammable gas. Combustion by-products include oxides of phosphorus.		
5.4	Special protective equipment for fire-fighters	A self-contained breathing apparatus should be worn by firefighting personnel.		
<b>6.0 Accidental Release Measures</b>				

## Safety Data Sheet

### Semi-Gel Etchant

6.1	Personal precautions.	Wear chemical splash goggles and gloves.
6.2	Environmental precautions	Avoid releasing large quantities into the environment as phosphoric acid may affect pH of water or soil.
6.3	Method for clean up	For small quantities: Wear safety glasses, lab coat and gloves. Absorb or wipe up spill with dry paper towels. Place all material in covered chemical waste container for disposal. Flush spill area with water.
<b>7.0</b>	<b>Handling and Storage</b>	
7.1	Handling	For use by dental professionals only. Wear safety glasses and gloves; wash hands after use. Avoid unnecessary exposure. Follow good hygiene practices. Protect soft tissue from etchant during intraoral procedures.
7.2	Storage	Keep tightly capped in original container. Store at cool room temperature. Avoid extremes of temperature (>27°C/80°F, <5°C/40°F), alkalis, sulfites, sulfides and most metals.
7.3	Specific uses	Dental etchant
<b>8.0</b>	<b>Exposure Controls / Personal Protection</b>	
8.1	Exposure limit values	TWA: 1 mg/m <sup>3</sup> TLV: 3 mg/m <sup>3</sup>
8.2	Exposure controls	
8.2.1	Occupational exposure controls	No special equipment required under normal conditions of use.
8.2.1.1	Respiratory protection	Good general ventilation is sufficient to control airborne vapors.
8.2.1.2	Hand protection	No special requirements other than surgical gloves.
8.2.1.3	Eye protection	No special requirements other than the usual safety glasses.
8.2.1.4	Skin protection	Good personal hygiene; lab coat
8.2.1.5	Other controls	Emergency eye wash fountain should be available. Protect soft tissue from etchant during intraoral procedures. Wash hands after use.
8.2.2	Environmental exposure controls	Avoid releasing large quantities of phosphoric acid into the environment as phosphoric acid may affect pH of water or soil.
<b>9.0</b>	<b>Physical and Chemical Properties</b>	
9.1	Characteristics	
9.1.1	Appearance / Color / Physical state	Green, thickened liquid.
9.1.2	Odor	Mild, characteristic
9.2	Important health, safety and environmental information	
9.2.1	pH	pH 1
9.2.2	Boiling point	135°C
9.2.3	Flash point	Not combustible
9.2.4	Flammability (solid, gas)	Not combustible
9.2.5	Explosive properties	Not applicable
9.2.6	Oxidizing properties	Not determined
9.2.7	Vapor pressure	2.933 mbar / Id: C

## Safety Data Sheet

### Semi-Gel Etchant

9.2.8	Specific gravity	1.300
9.2.9	Solubility in water	Complete
9.2.10	Partition coefficient	Not determined
9.2.11	Viscosity	Not determined
9.2.12	Vapor density	Not determined
9.2.13	Evaporation rate	Not determined
<b>10.0</b>	<b>Stability and reactivity</b>	
10.1	Conditions to avoid	Not applicable
10.2	Materials to avoid	Avoid contact with sulfides and sulfites that could release toxic gases. Avoid strong alkalis because high heat of reaction can generate steam. Avoid most metals because phosphoric acid can react to liberate hydrogen, a flammable gas.
10.3	Hazardous decomposition products	Avoid contact with materials such as sulfides and sulfites that could release toxic gases. Avoid strong alkalis because high heat of reaction can generate steam. Avoid most metals because phosphoric acid can react to liberate hydrogen, a flammable gas.
10.4	Further information	Stable under normal conditions of use and storage.
<b>11.0</b>	<b>Toxicological information</b>	
11.1	Acute toxicity	Not known to be toxic
11.2	Irritation and corrosiveness	Corrosive. May cause burns or irritation to eyes, skin, mouth, throat or gastrointestinal tract. Not expected to be an inhalation hazard unless product is misted or heated at high temperatures.
11.3	Sensitization	Not applicable.
11.4	Sub-acute, sub-chronic and prolonged toxicity	None known.
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	Not considered a carcinogen, mutagen, teratogen or reproductive toxin.
11.6	Empirical data	Not available
11.7	Clinical Experience	Using phosphoric acid etchants to prepare teeth for bonding procedures is a well-established (more than 20 years), industry-accepted, dental procedure. Etching enamel with phosphoric acid is safe and effective treatment in the hands of a dental professional.
<b>12.0</b>	<b>Ecological Information</b>	
12.1	Ecotoxicity	No specific information available. Use according to good working practices. Avoid release into the environment as it may cause pH variation.
<b>13.0</b>	<b>Disposal Considerations</b>	
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.
<b>14.0</b>	<b>Transport Information</b>	

## Safety Data Sheet

### Semi-Gel Etchant

14.1	UN Number	1805
14.2	Technical name	Phosphoric acid
14.3	Packing group	Packing Group III
14.4	IATA class	Class 8, Corrosive
<b>15.0</b>	<b>Regulatory Information</b>	
15.1	EU	Class IIa medical devices under MDD 93/42/EEC.
15.2	US FDA	Class II medical devices
15.3	Health Canada	Class II medical devices
<b>16.0</b>	<b>Other information</b>	
16.1	List of relevant R phrases	R11: Flammable liquid R 34: Causes burns R 36 / 37 / 38: Irritating to eyes, respiratory system and skin.
16.2	Hazard Statements	H314: Causes severe skin burns and eye damage. H315: Causes serious skin irritation. H319: Causes serious eye irritation.
16.3	Precautionary Statements	P264: Wash hands thoroughly after handling. P280: Wear protective gloves, clothing and eye/face protection. P301 + P330 + P331: If swallowed, rinse mouth. Do NOT induce vomiting. P303 + P361 + P353: If on skin (or hair), remove all contaminated clothing. Rinse skin with water. P363: Wash contaminated clothing before reuse. P310: Immediately call a Poison Center or doctor/physician. P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until pH of tears is 7.
16.4	Restrictions on use	Dental etchants are to be sold to and used by dental professionals.
16.5	Further information	The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.
16.6	Sources of key data	National Institute for Occupational Safety (NIOSH) Occupational Safety and Health Administration (OSHA) Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH). Guidance on the compilation of safety data sheets. Version 1.1; December 2011. European Chemicals Agency

**Safety Data Sheet**

**Semi-Gel Etchant**

16.7 Information which has been added, deleted or revised.

This Safety Data Sheet has been revised to meet the requirements of the GHS SDS format and Regulations (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH). Specifically, Sections 2.1, 2.2, 3.2, 16.2, 16.3 have been modified.

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