Safety Data Sheet

Trade Name: Etch-Rite 38% Phosphoric Acid Etching Gel

1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	Etch-Rite, 38% Pho	sphoric Acid Etching G	el
1.2	Application / Use	Dental etching gel fo	or use by dental profession	nal only.
1.2.2	SIC	851 Human health a	ectivity	·
1.2.3	Use Category	55		
1.3	Manufacturer			
	Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 92 Email: Pulpdent@pu	26-6666; Fax: 1 617 926-6 ulpdent.com	262
1.4	Emergency Telephone Number	1-800-535-5053 (24	Hour Emergency / USA)	
1.5	Authorized European Representative	Advena Ltd. Pure Offices, Plato (Warwick, CV34 6WE United Kingdom		
2.0	Hazards Identification			
2.1	Classification			
2.1.1	Classification according to Regulation	Hazard Class	Hazard Category	Hazard Statement
	(EC) No. 1272/2008 [CLP]	Skin corrosion Eye irritation	1B 2	H314 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	
2.2	GHS Label Elements Hazard Pictograms			
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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.

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3.0	Composition	Composition					
3.1	Chemical characterization of the preparation Phosphoric acid in a gel matrix.						
3.2	Hazardous ing	Hazardous ingredients					
	CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1272/2008 (CLP).		
	7664-38-2	Phosphoric Acid	38%	Corrosive (C) R34; R36/ 37/38	Skin corrosion; 1B Eye irritant, 2		
4.0	First Aid Mea	sures					
4.1	General Inform	nation	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 medica attention for persistent irritation or burns.				
4.4	Ingestion		Rinse mouth with water. Do not induce vomiting. Give water to dilute. Go immediate medical attention. Never give anything by mouth to a unconscious person.				
4.5	Inhalation Move to fresh air. If necessary, administer oxygen and/or artificial real and seek medical attention.		oxygen and/or artificial respiration				
4.6	Precautions for first responders		Ventila	Ventilate the area. Wear safety glasses, gloves and lab coat.			
4.7	Information for	r physicians					
	Symptoms			n, pain or redness in eyes, mucous e delayed so continued monitoring o			
	Hazards			May cause burns or irritation to eyes, skin or mucous membranes. Acute effects may be delayed.			
	Treatment		Same	Same as above under First Aid.			
5.0	Fire Fighting Measures						
5.1	Suitable extinguishing media Not a fire hazard. Use water spray to keep fire-exposed containers Extinguish fire with agent suitable for surrounding fire.						
5.2	Extinguishing	media to avoid	None				
5.3	Special expos	ure 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 protecting fighters	tive equipment for fire	e- A self-	contained breathing apparatus.			
6.0	Accidental Re	Accidental Release Measures					
6.1	Personal prec	autions.	Wear	Wear chemical splash goggles and gloves.			
6.2	Environmenta	l precautions		releasing large quantities into the fect pH of water or soil.	environment as phosphoric acid		

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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.	
7.0	Handling and Storage		
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	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	
8.0	Exposure Controls / Personal Protection		
8.1	Exposure limit values	TWA: 1 mg/m³ TLV: 3 mg/m³	
8.2	Exposure controls		
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	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 safety glasses.	
8.2.1.4	Skin protection	No special requirements. Good personal hygiene and safety practices, wearing a lab coat will protect 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.	
9.0	Physical and Chemical Properties		
9.1	Appearance / Color		
9.1.1			
	Color / Physical state	Medium blue, thixotropic gel.	
9.1.2	Color / Physical state Odor	Medium blue, thixotropic gel. Mild, characteristic	
9.1.2 9.2	·	Mild, characteristic	
	Odor	Mild, characteristic	
9.2	Odor Important health, safety and environmental in	Mild, characteristic formation	
9.2 9.2.1	Odor Important health, safety and environmental in pH	Mild, characteristic formation pH 1	
9.2 9.2.1 9.2.2	Odor Important health, safety and environmental in pH Boiling point	Mild, characteristic formation pH 1 135°C	
9.2 9.2.1 9.2.2 9.2.3	Odor Important health, safety and environmental in pH Boiling point Flash point	Mild, characteristic formation pH 1 135°C Not combustible	
9.2 9.2.1 9.2.2 9.2.3 9.2.4	Odor Important health, safety and environmental in pH Boiling point Flash point Flammability (solid, gas)	Mild, characteristic formation pH 1 135°C Not combustible Not combustible	
9.2 9.2.1 9.2.2 9.2.3 9.2.4 9.2.5	Odor Important health, safety and environmental in pH Boiling point Flash point Flammability (solid, gas) Explosive properties Oxidizing properties	Mild, characteristic formation pH 1 135°C Not combustible Not combustible Not applicable	
9.2 9.2.1 9.2.2 9.2.3 9.2.4 9.2.5 9.2.6	Odor Important health, safety and environmental in pH Boiling point Flash point Flammability (solid, gas) Explosive properties	Mild, characteristic formation pH 1 135°C Not combustible Not combustible Not applicable Not determined	

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14.2

14.3

Technical name Packing group

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Trade Name: Etch-Rite 38% Phosphoric Acid Etching Gel				
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		
10.0	Stability and reactivity			
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.		
11.0	Toxicological information			
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, 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.		
12.0	Ecological Information			
12.1	Ecotoxicity	No specific information available. Use according to good working practices. Avoid release into the environment as it may cause pH variation.		
13.0	Disposal Considerations			
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.		
14.0	Transport Information			
14.1	UN Number	1805		

Phosphoric acid

Packing Group III

14.4	IATA class Class 8, Corrosive	
15.0	Regulatory Information	
15.1	EU	Class IIa medical device under MDD 93/42/EEC.
15.2	US FDA	Class II medical device
15.3	Health Canada	Class II medical device
16.0	Other information	
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/used by dental professionals only.
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
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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