SAFETY DATA SHEETS

This SDS packet was issued with item: 075897848

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

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Pulpdent Corporation Safety Data Sheet

Trade Name: *Etch Royale,* 37% Phosphoric Acid Etching Gel

1.0	Commercial Product Name and Supplier					
1.1	Commercial product name / designation	Etch Royale, 37% P	Phosphoric Acid Etching	Gel		
1.2	Application / Use	Dental etching gel fo	r use by dental profession	al only.		
1.2.2	SIC	851 Human health a	ctivity			
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: <u>Pulpdent@pu</u>	6-6666; Fax: 1 617 926-6 lpdent.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 C 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	1B	H314		
		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); F	R 34; R 36 / 37 / 38			
2.2	GHS Label Elements					
	Hazard Pictograms					
	L'E					
	Signal Word: DANGER					
	Restricted to use by dental professional only.					
	Hazard Statements	_				
	H314: Causes severe skin burns and eye damage. H319: Causes serious eve irritation					
	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 v easy to do. Continue rinsing until pH of tears is 7.		ninutes. Remove contact	enses, it present and		
3.0	Composition					
3.1	Chemical characterization of the preparation	Phosphoric acid in a	ael matrix			

3.1	Chemical characterization of the preparation	Phosphoric acid in a gel matrix.	
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Trade Name: Etch Royale, 37% Phosphoric Acid Etching Gel

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	37%	Corrosive (C)	Skin corrosion; 1B		
				R34; R36/ 37/38	Eye irritant, 2		
4.0	First Aid Mea	isures					
4.1	effects ma		cause burns or irritation to eyes, s s may be delayed. Show this safet nedical attention in case of uncertain				
4.2	Eye Contact			Remove contact lenses. Keep eyelids apart and flush with running wate 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		imme	Rinse mouth with water. Do not induce vomiting. Give water to dilute. Ge immediate medical attention. Never give anything by mouth to ar unconscious person.			
4.5	Inhalation			Move to fresh air. If necessary, administer oxygen and/or artific respiration and seek medical attention.			
4.6	Precautions for	or first responders	Ventilate the area. Wear safety glasses, gloves and lab coat.		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.			
5.0	Fire Fighting Measures						
5.1	Suitable extinguishing media			fire hazard. Use water spray to k iish fire with agent suitable for surro	eep fire-exposed containers cool. ounding 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 flammabl gas. Combustion by-products include oxides of phosphorus.			
5.4	Special protec fighters	ctive equipment for fire	e- A self person	-contained breathing apparatus nel.	should be worn by firefighting		
6.0	Accidental R	elease Measures					
6.1	Personal prec	Personal precautions. Wear ch		hemical splash goggles and gloves).		
6.2	Environmenta	l precautions		Avoid releasing large quantities into the environment as phosphoric acid may affect pH of water or soil.			
6.3	Method for cle	ean up	gloves	all quantities (as in this product): Absorb or wipe up spill with dry p d chemical waste container for disp	paper towels. Place all material in		

Trade Name: Etch Royale, 37% Phosphoric Acid Etching Gel

7.1 Handlir	ng	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	e	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 Specifi	ic uses	Dental etchant	
8.0 Expos	sure Controls / Personal Protection		
8.1 Exposu	ure limit values	TWA: 1 mg/m ³ TLV: 3 mg/m ³	
8.2 Exposu	ure controls		
8.2.1 Occupa	ational exposure controls	No special equipment required under normal conditions of use of this product in the quantity provided.	
8.2.1.1 Respire	atory protection	Good general ventilation is sufficient to control airborne vapors.	
8.2.1.2 Hand p	protection	No special requirements other than surgical gloves.	
8.2.1.3 Eye pro	otection	No special requirements other than safety glasses.	
8.2.1.4 Skin pr	rotection	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 of	controls	Emergency eye wash fountain should be available. Protect soft tissue from etchant during intraoral procedures. Wash hands after use.	
8.2.2 Enviror	nmental exposure controls	Avoid releasing large quantities of phosphoric acid into the environment as phosphoric acid may affect pH of water or soil.	
9.0 Physic	Physical and Chemical Properties		
9.1 Appear	rance / Color		
9.1.1 Color /	Physical state	Dark blue gel	
9.1.2 Odor		Mild, characteristic	
9.2 Importa	Important health, safety and environmental information		
9.2.1 pH		рН 1	
9.2.2 Boiling	point	135°C	
9.2.3 Flash p	point	Not combustible	
9.2.4 Flamma	ability (solid, gas)	Not combustible	
9.2.5 Explosi	ive properties	Not applicable	
9.2.6 Oxidizir	ng properties	Not determined	
9.2.7 Vapor p	pressure	2.933 mbar / ld: C	
9.2.8 Specific	c gravity	1.300	
9.2.9 Solubili	ity in water	Complete	
9.2.10 Partitio	on coefficient	Not determined	
9.2.11 Viscosi	ity	Not determined	

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Trade Name: Etch Royale, 37% Phosphoric Acid Etching Gel

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	
14.2	Technical name	Phosphoric acid	
14.3	Packing group	Packing Group III	
14.4	IATA class	Class 8, Corrosive	

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Trade Name: Etch Royale, 37% Phosphoric Acid Etching Gel

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.