Commercial product name / designation	Etch-All 10% Ph	osnboric Acid Etch	ina Cal
		ospiione Acia Eten	ing Gei
Application / Use SIC Use Category		•	al only.
Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA			262
Emergency Telephone Number	1-800-535-5053 (24 H	Hour Emergency / USA)	
Authorized European Representative	Advena Ltd. Pure Offices, Plato C Warwick, CV34 6WE United Kingdom		
Hazards Identification			
Classification			
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Hazard Class Skin corrosion Eye irritation	<u>Hazard Category</u> 1B 2	<u>Hazard Statement</u> H314 H319
Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)	•	34; R 36 / 37 / 38	
GHS Label Elements			
Hazard Pictograms			
	Jse Category Manufacturer Pulpdent Corporation BO Oakland Street, P.O. Box 780 Natertown, MA 02472 USA Emergency Telephone Number Authorized European Representative Hazards Identification Classification Classification according to Regulation EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC See SECTION 16 for full text of risk phrases) GHS Label Elements	SIC 851 Human health act Use Category 55 Manufacturer Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Email: Pulpdent@pul Emergency Telephone Number 1-800-535-5053 (24 In Authorized European Representative Advena Ltd. Pure Offices, Plato C Warwick, CV34 6WE United Kingdom Hazards Identification Classification according to Regulation EC No. 1272/2008 [CLP] Skin corrosion Eye irritation Classification according to Directive 67/548/EEC See SECTION 16 for full text of risk phrases) GHS Label Elements	SIC 851 Human health activity Jse Category 55 Manufacturer Pulpdent Corporation 30 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA Emergency Telephone Number 1-800-535-5053 (24 Hour Emergency / USA) Authorized European Representative Advena Ltd. Pure Offices, Plato Close Warwick, CV34 6WE United Kingdom Classification Classification according to Regulation EC) No. 1272/2008 [CLP] Hazard Class Skin corrosion 1B Eye irritation 2 Classification according to Directive 67/548/EEC See SECTION 16 for full text of risk phrases) GHS Label Elements

Revision Date: May 28, 2019

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.

Trade Name: Etch-All 10% Phosphoric Acid Etching Gel

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.1272/2008 (CLP).
	7664-38-2	Phosphoric Acid	10%	Corrosive (C) R34; R36/ 37/38	Skin corrosion; 1B Eye irritant, 2
4.0	First Aid Mea	sures			
4.1	General Inforr	mation	May cause burns or irritation to eyes, skin or mucous membranes. Acu effects may be delayed. Show this safety data sheet to medical personne Get medical attention in case of uncertainty.		data sheet to medical personnel.
4.2	Eye Contact		Remove contact lenses. Keep eyelids apart and flush with running water 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		immed	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		Ventila	Ventilate the area. Wear safety glasses, gloves and lab coat.	
4.7	Information for physicians				
	Symptoms			n, pain or redness in eyes, mucous e delayed so continued monitoring o	
	Hazards			ause burns or irritation to eyes, sk may be delayed.	in or mucous membranes. Acute
	Treatment		Same	as above under First Aid.	
5.0	Fire Fighting Measures				
5.1	Suitable extino	guishing media		fire hazard. Use water spray to k uish fire with agent suitable for surro	
5.2	Extinguishing media to avoid		None	None	
5.3	Special expos	ure hazards in a fire		noric acid can react with metals to ombustion by-products include oxid	
5.4	Special protection fighters	ctive equipment for fire	e- A self-	contained breathing apparatus.	
6.0	Accidental R	elease Measures			
6.1	Personal prec	autions.	Wear	hemical splash goggles and gloves).
6.2	Environmenta	l precautions		releasing large quantities into the fect pH of water or soil.	environment as phosphoric acid

Revision Date: May 28, 2019

Safety Data Sheet

Trade Name: Etch-All 10% Phosphoric Acid Etching Gel

	•	<u> </u>	
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	rotection	
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	Purple thixotropic gel.	
9.1.2	Odor	Mild, characteristic	
9.2	Important health, safety and environmental information		
9.2.1	рН	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 / ld: C	
9.2.8	Specific gravity	1.575	
9.2.9	Solubility in water	Complete	
-	7	•	

Revision Date: May 28, 2019

rrade	Name: Etch-All 10% Phosphoric Acid	Etching Ger
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.
11.5 11.6	• • • • •	
	Toxicity	toxin.
11.6	Toxicity Empirical data	toxin. Not available 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
11.6 11.7	Toxicity Empirical data Clinical Experience	toxin. Not available 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
11.6 11.7	Toxicity Empirical data Clinical Experience Ecological Information	toxin. Not available 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. No specific information available. Use according to good working practices. Avoid release into the environment as it may cause pH
11.6 11.7 12.0 12.1	Toxicity Empirical data Clinical Experience Ecological Information Ecotoxicity	toxin. Not available 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. No specific information available. Use according to good working practices. Avoid release into the environment as it may cause pH
11.6 11.7 12.0 12.1	Toxicity Empirical data Clinical Experience Ecological Information Ecotoxicity Disposal Considerations	toxin. Not available 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. No specific information available. Use according to good working practices. Avoid release into the environment as it may cause pH variation. Follow all local and national government regulations in disposing
11.6 11.7 12.0 12.1 13.0 13.1	Toxicity Empirical data Clinical Experience Ecological Information Ecotoxicity Disposal Considerations Regulations	toxin. Not available 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. No specific information available. Use according to good working practices. Avoid release into the environment as it may cause pH variation. Follow all local and national government regulations in disposing
11.6 11.7 12.0 12.1 13.0 13.1 14.0	Toxicity Empirical data Clinical Experience Ecological Information Ecotoxicity Disposal Considerations Regulations Transport Information	toxin. Not available 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. No specific information available. Use according to good working practices. Avoid release into the environment as it may cause pH variation. Follow all local and national government regulations in disposing material or contaminated packaging.

44.4	IATA da	01
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.

Revision Date: May 28, 2019