SAFETY DATA SHEETS

This SDS packet was issued with item:

075897863

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

074089140 075897848 076665343 076665491 076665517 076665525 076665541

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).

072801017 073270824 073650017 075897806 075897814 075897822 075897830 075897855

Actiocms.com ACTIO MSDS ID: 1156667

View Section: 12345678910111213141516

EC Directive Pictograms

Personal Protective Pictograms

Gloves
Dust
Respirator
Faceshield
Full
Suit
Splash

Goggles

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION AD31001MS

Product Name: Patterson Topical Benzocaine Anesthetic

Manufacturer MSDS.: AD31001MS

Manufacturer Name: Patterson Companies, Inc.

Address: 1031 Mendota Heights Road

St. Paul, MN 55120

General Use: Recommended Use: Topical anesthetic

Restrictions on Use: Use only as directed

Business Phone: 651-686-1600 Business Fax: 651-686-9331

CHEMTREC Numbers:

For emergencies in the US, call CHEMTREC: 800-424-9300

Revision Date:1/28/11 Supersedes: 6/22/09 Revision Number: 2

Trade Names: Topex« Topical Anesthetic Gel/Liquid

Chemical Name/Classification: Mixture

U.N. Number: None

U.N. Dangerous Goods Classification: Not Regulated

Product Codes: AD31001, AD31002, AD31003, AD31004, AD31005, AD31006,

AD31007, AD31064, AD31065, AD31067, AD31068, AD31011, AD31012,

AD31014

Ingredient NameCAS#Ingredient Percent

Polyethylene Glycol25322-68-330-50% by Weight

EC Number: Not available

EC Index Number:1

IUPAC Name: Poly(ethylene oxide)

Substance Classification: Not applicable

Benzocaine94-09-720% by Weight

EC Number:202-303-5 EC Index Number:1 Hazard Symbols:Xi Risk Phrases:R43

IUPAC Name: Ethyl p-aminobenzoate

Refer to Section 16 for the full text of the EU Classifications and R Phrases.

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SECTION 3 : HAZARDS IDENTIFICATIONAD31001MS

EU Classification: Irritant (Xi)

EU Labelling: X Irritant

Contains benzocaine:

R43 May cause sensitization by skin contact.

S24/25 Avoid contact with skin and eyes.

S37 Wear suitable gloves

US Hazard Classification: Hazardous

Applies to all ingredients:

Route of Exposure: Eye, Skin, Inhalation, Ingestion

Signs/Symptoms:Contact with skin, eyes or mucous membranes may cause numbness. Repeated skin contact may cause burning and itching of the skin with dermatitis or rash.

Aggravation of Pre-Existing Conditions: Employees with pre-existing skin disorders may be at increased risk from exposure. Polyethylene Glycol:

Target Organs: Specific Target Organ Toxicity (STOT):

Repeated Exposure: Propylene glycol: In 2 week inhalation study, rats were administered whole body exposure for 6 hr/day for 9 days. No exposure related clinical signs or ophthalmic changes were noted and no mortality was recorded during the study.

Benzocaine :

Target Organs: Specific Target Organ Toxicity (STOT): Single Exposure: Benzocaine: When applied topically as recommended, benzocaine has been shown to be relatively nontoxic, however, sensitization may occur.

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Eye Contact: Flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation or other symptoms persist. Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if symptoms develop and persist. Inhalation: None needed under normal use conditions. If irritation develops, remove to fresh air. Get medical attention if symptoms persist. Ingestion: If swallowed, call a poison control center. Only

induce vomiting if directed by medical personnel. Never give anything by mouth to an unconscious person.

Note to Physicians: (Treatment, Testing, and Monitoring):

Treatment of overexposure should be directed at the control of symptoms and clinical conditions.

Most important symptoms of exposure:

Contact with skin, eyes or mucous membranes may cause numbness. Repeated skin contact may cause burning and itching of the skin with dermatitis or rash.

Other: None known.

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Fire:Flammability: Not flammable
Explosion:Explosive limits: Not applicable
Flash Point:> 300 deg F/> 149 deg C
Auto Ignition Temperature:Not available
Extinguishing Media:Suitable: Use media appropriate for

surrounding fire.

Fire Fighting Instructions: Fire Fighting Procedures: Cool fire exposed containers and structures with water.

Specific Hazards Arising from the Chemical: None known.

Precautions for Fire Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Protective Equipment: Recommended Protective Equipment for Fire Fighters:

EYES/FACE, SKIN, RESPRIATORY, THERMAL

To Top of page

Personal Precautions: PPE and Emergency Procedures: For large spills, wear gloves and eye protection. Small spills do not require special precautions.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE, SKIN

Spill Cleanup Measures: Collect using an inert non-combustible absorbent material and place in appropriate containers for disposal.

Environmental Precautions: Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

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Handling: Precautions for Safe Handing: Avoid contact with the eyes and skin. Wash thoroughly after handling. Use in accordance with package instructions.

Storage: Conditions for Safe Storage: Avoid prolonged storage at elevated temperatures as product degradation may occur. Work Practices: Wash thoroughly after handling. Remove and launder contaminated clothing before reuse.

Hygiene Practices: Wash thoroughly after handling. Remove and launder contaminated clothing before reuse.

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Engineering Controls: Appropriate Engineering Controls: No special controls required.

Personal Protective Equipment

Routine Handling: Specific Thermal Hazards: Not applicable

Recommended Personal Protective Equipment:

EYES/FACE, SKIN

Skin Protection Description: Avoid skin contact. Wear plastic or rubber gloves to avoid contact.

Eye/Face Protection: Avoid eye contact. Safety glasses should be worn if contact is likely.

Respiratory Protection: None required under normal use conditions.

Exposure Limits: Occupational Exposure Limits:

Polyethylene Glycol:

10 mg/m3 TWA AIHA WEEL (aerosol) 1000 mg/m3 (inhalable) DFG MAK

Benzocaine: None Established

Biological Exposure Limits: None Established Environmental Exposure Controls: None required for normal use.

General Hygiene Considerations and Work Practices: Wash thoroughly after handling. Remove and launder contaminated clothing before reuse.

Protective Measures During Repair and Maintenance of Contaminated Equipment: Not applicable for product.

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Physical State/Appearance:Gel Odor:Characteristic of flavor

pH:6.05

Decomposition Temperature: Not available

Vapor Pressure: Negligible Vapor Density: Not available

Flash Point:> 300 deg F/> 149 deg C Auto Ignition Temperature:Not available

Boiling Point: Initial: > 482 deg F/> 250 deg C

Freezing Point:Not available Melting Point:Not available

Solubility:Disperses

Density:Relative: 1.091 @ 25 deg C Evaporation Point:Not available Viscosity:164,000 centipose

Odor Threshold:Not available

Coefficient of Water/Oil Distribution: Partition coefficient:

n-octanol/water: Not available Flammability: Not flammable Explosive Properties: None

Explosive limits: Not applicable

Oxidizing Properties: None

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Chemical Stability: Stable.

Conditions to Avoid: None known.

Incompatibilities with Other Materials: Avoid oxidizing agents. Reactivity: Will not polymerize.

Possibility of Hazardous Reactions: Hazardous reactions are unlikely.

Hazardous Decomposition Products: Thermal decomposition may produce carbon and nitrogen oxides.

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Applies to all ingredients:

Eye Effect:Direct contact may cause irritation with redness and tearing. Numbness may occur.

Skin Effects: Direct contact may cause numbness. Prolonged or repeated skin contact may cause contact dermatitis or hypersensitivity to benzocaine with burning, stinging, tenderness and edema.

Ingestion Effects: Swallowing may cause nausea, vomiting and diarrhea. In rare cases bezocaine has been shown to cause methemoglobemia.

Inhalation Effects: None expected from normal use. Inhalation of mists may cause respiratory irritation.

Chronic Effects: None expected.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC, ACGIH, NTP or EU Directives.

Mutagenicity: No data available

Reproductive Toxicity: No data available.

Other Toxicological Information: Medical Conditions Aggravated by Exposure: Employees with pre-existing skin disorders may be at increased risk from exposure.

Polyethylene Glycol:

Ingestion Effects:Oral mouse LD50: 28,900 mg/kg

Other Toxicological Information: Specific Target Organ Toxicity (STOT):

Repeated Exposure: Propylene glycol: In 2 week inhalation study, rats were administered whole body exposure for 6 hr/day for 9 days. No exposure related clinical signs or ophthalmic changes were noted and no mortality was recorded during the study.

Benzocaine :

Ingestion Effects:LD50 oral rat: 3042 mg/kg

Other Toxicological Information: Specific Target Organ Toxicity (STOT):
Single Exposure: Benzocaine: When applied topically as recommended, benzocaine has been shown to be relatively nontoxic, however, sensitization may occur.

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Ecological Paragraph: Toxicity:

Propylene glycol: Salmo salar (Atlantic salmon) > 1000 mg/L Biodegradation:Benzocaine: Readily biodegradable Other:Other Adverse Effects: None known. Bio-accumulative Potential: Benzocaine: Estimated BCF is 5. Potential for bioaccumulation is low.

Mobility in Soil: Benzocaine: Moderate mobility based upon an estimated Koc of 250.

Results of PBT/vPvB Assessment: Not required.

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Waste Disposal:Regulations: Dispose in accordance with local and national environmental regulations.

Properties (Physical/Chemical) Affecting Disposal: None known.

Waste Treatment Recommendations: None needed for normal anticipated use.

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UN Proper Shipping Name: Not Regulated

UN Class:None
UN Number:None

UN Packaging Group:None

Special precautions for user: Not applicable

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Applies to all ingredients:

TSCA 8(b): Inventory Status: Toxic Substances Control Act (TSCA): This product is a drug and not subject to chemical notification requirements.

SARA: Superfund Amendments and Reauthorization Act (SARA) Title III Information:

Section 304:Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):

This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting

requirements. Report spills required under federal, state and local regulations.

Section 312 Hazard Category: SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute:Yes Chronic:No Fire:No Reactive:No Pressure:No

Section 313 Toxic Release Form: This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components: None

Section 112(r): Clean Air ActClean Air Act (CAA): Not Listed Section 116.4 part 117: Clean Water ActClean Water Act (CWA): Not Listed

OSHA 29 CFR 1200:OSHA Hazard Classification: Sensitizer State:California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components: None

Canada WHMIS: Canadian Workplace Hazardous Materials Information System (WHMIS): Drugs are not subject to WHMIS European Community Chemical Inventory Status: EU REACH: This product is a medicinal product and not subject to registration requirements.

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MSDS Revision Date:1/28/11

Supersedes: 6/22/09 Revision Number: 2

Full text of Classification abbreviations used in Section 2 and 3:

Xi Irritant

R43 May cause sensitization by skin contact.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for

components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.

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MATERIAL SAFETY DATA SHEET: Pulpdent Etch Royale™

Pulpdent Etch Royale™ IDENTITY: Trade Name:

> ER, ER6, ER12G, ER24, ER50, ER50R Codes: Chemical Description: 37% Phosphoric acid in a soft gel base.

Product Use: Dental etching material

<u>SECTI</u>ON I

Pulpdent Corporation Phone Numbers:

80 Oakland Street 24 Hour Emergency: (800) 535-5053

Customer Service: (800) 343-4342/ (617) 926-6666 Watertown, MA 02472 USA

Date Prepared: September 1, 2008

SECTION II - HAZARDOUS INGREDIENTS

CAS RN PEL/TLV **UN Number** Ingredients $1 \text{ mg/m}^3 / 3 \text{ mg/m}^3$ Phosphoric Acid 7664-38-2 UN 1805 6 mg/m³ / 10 mg/m³ Amorphous, fumed silica 112945-52-5

DOT HAZARD CLASS/ID No: Class 8, III

WHMIS CLASSIFICATION: Class E - Corrosive

REACTIVITY: 0 NFPA HMIS RATING: HEALTH: 2 FLAMMABILITY: 0

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 135°C Specific Gravity: 1.30 Vapor Pressure: 0.0285 Odor Threshold: Not available Melting Point: 42°C Solubility in water: Complete

Appearance and Odor: Dark blue gel with characteristic odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not combustible Flammable limits: LEL N/A **UEL N/A**

Extinguishing Media: Extinguish fire using agent suitable for surrounding fire. Use water spray to keep

fire-exposed containers cool.

Special Fire Fighting Procedures: Protective clothing; positive-pressure, self-contained breathing

apparatus.

Hazardous Combustion Products: Phosphoric acid may react with metals to liberate hydrogen, a flammable gas. Combustion by-products include oxides of phosphorus.

SECTION V - REACTIVITY DATA

Stability: Stable Conditions to avoid: None

Incompatibility: Avoid contact with materials such as sulfides and sulfites, which could release toxic gases. Avoid strong alkalies, because high heat of reaction can generate steam. Avoid most metals, because phosphoric acid can react to liberate hydrogen, a flammable gas.

Hazardous Decomposition Products: Toxic gases, steam, hydrogen (flammable), oxides of phosphorus.

Hazardous Polymerization: Does not occur. Conditions to avoid: None

SECTION VI - HEALTH HAZARD DATA

Summary of Acute Hazards: Corrosive material. Causes eye and skin burns. Acute effects may be delayed. Contact with material may not produce an immediate burning sensation.

Rev.: September 1, 2008 1/2

MATERIAL SAFETY DATA SHEET: Pulpdent Etch Royale™

Route of Exposure Signs & Symptoms

Inhalation None expected under normal conditions of use of this product. However,

if inhaled as a mist or vaporized, it can be irritating to the respiratory

tract.

Eye Contact Corrosive. May cause burns or irritation.

Skin Absorption Slightly toxic.

Skin Contact Corrosive. May cause burns or irritation. Acute effects may be delayed.

Contact with material may not produce an immediate burning sensation.

Ingestion Corrosive. Slightly toxic. May cause burns or irritation to the mouth,

throat or gastrointestinal tract.

Summary of Chronic Hazards: None known.

Carcinogenicity, Not known to be a carcinogen.

Teratogenicity, Mutagenicity, Reproductive Toxicity: None known

Emergency First Aid Procedures:

Inhalation Remove to fresh air. Seek medical attention if symptoms persist.

Eye contact Immediately flush with running water for 15+ minutes until pH of tears is

7. Seek medical care.

Ingestion Dilute with water/milk. Do not induce vomiting. Seek medical attention.

Skin contact Immediately flush with running water for 15+ minutes. Seek medical

attention. Remove contaminated clothing and wash before reuse.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Handling and Storage Precautions: Store tightly closed in original container, in a cool, dry well-ventilated location away from heat sources and out of direct sunlight. Separate from alkalies and most metals.

Release or Spill: Wear gloves and chemical splash goggles. For small quantities: absorb or wipe up spill with dry paper towels. Place all material in chemical waste container for disposal. Flush spill area with water.

Waste Disposal Method: Follow all government regulations.

Other Precautions: Wash thoroughly after handling. Use with adequate ventilation. Keep container closed. Empty container retains vapor and product residue; observe all safeguards.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: None needed under normal conditions of use of this product. If used *in vivo*, a high speed evacuation tip should be used to protect patient. When airborne limits are exceeded, a NIOSH-approved respirator with full face piece is recommended.

Ventilation: No special ventilation required under normal conditions of use of this product. For larger quantities, local mechanical exhaust ventilation to keep TLV < 3 mg/m³.

Protective Gloves: Chemically resistant gloves. Eye Protection: Chemically resistant splash goggles.

Other Protective Clothing or Equipment: Wear long sleeves, apron and lab coat over clothing to protect skin. If used *in vivo*, use rubber dam around tooth to be etched and high speed evacuator tip or other protective devices for patient. Emergency eye wash fountain should be close by and maintained.

Work/Hygienic Practices: Wash thoroughly after handling. Clean protective equipment before reuse.

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.

Rev.: September 1, 2008 2 / 2

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% Phosphoric Acid Etching Gel		
1.2	Application / Use	Dental etching gel for use by dental professional only.		
1.2.2	SIC	851 Human health ac	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: Pulpdent@pul	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 (EC) No. 1272/2008 [CLP]	Hazard Class	Hazard Category	Hazard Statement
		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		

Revision Date: May 28, 2019

2.2 GHS Label Elements

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.

	nazardous 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	sures			
4.1	General Information May cause burns or irritation to eyes, skin or mucous membranes effects may be delayed. Show this safety data sheet to medical per 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 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. 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 artific respiration and seek medical attention.	
4.6	Precautions fo	Precautions for first responders Ventilate the area. Wear safety glasses, gloves and lab coat.		gloves and lab coat.	
4.7 Information for physicians					
	Symptoms			on, pain or redness in eyes, mu s may be delayed so continued mo	
	Hazards			cause burns or irritation to eyes, so s may be delayed.	kin or mucous membranes. Acute
	Treatment		Same	as above under First Aid.	
5.0	Fire Fighting	Fire Fighting Measures			
5.1	Suitable exting	Suitable extinguishing media		fire hazard. Use water spray to k uish fire with agent suitable for surro	
5.2	Extinguishing	Extinguishing media to avoid			
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 protecting fighters	ctive equipment for fire	 A self-contained breathing apparatus should be worn by firefighting personnel. 		should be worn by firefighting
6.0	Accidental R	elease Measures			
6.1	Personal precautions. Wear chemical splash goggles and gloves.		i.		
6.2	Environmenta	Avoid releasing large quantities into the environment as phosphoric a may affect pH of water or soil.		environment as phosphoric acid	
6.3	Method for cle	ean up	gloves	nall quantities (as in this product): \Absorb or wipe up spill with dry pd chemical waste container for disp	paper towels. Place all material in

Revision Date: May 28, 2019

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

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/m ³ TLV: 3 mg/m ³
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	Dark blue gel
9.1.2	Odor	Mild, characteristic
9.2	Important health, safety and environmental in	formation
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 / Id: C
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

Revision Date: May 28, 2019

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

release toxic gases. Avoid strong alkalis because high hea reaction can generate steam. Avoid most metals beca phosphoric acid can react to liberate hydrogen, a flammable gas Avoid contact with materials such as sulfides and sulfites that or release toxic gases. Avoid strong alkalis because high hea reaction can generate steam. Avoid most metals beca phosphoric acid can react to liberate hydrogen, a flammable gas 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, the orgastrointestinal tract. Not expected to be an inhalation has 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 Corrosive. May cause burns or irritation to eyes, skin, mouth, the orgastrointestinal tract. Not expected to be an inhalation has unless product is misted or heated at high temperatures. 11.6 Empirical data Not applicable. 11.7 Clinical Experience Using phosphoric acid etchants to prepare teeth for bond procedures is a well-established unith procedure. Etching enamel with phosphoric acid accepted, dental procedure. Etching enamel with phosphoric acid safe and effective treatment in the hands of a dental professional accepted, dental procedure. Etching enamel with phosphoric acid safe and effective treatment in the hands of a dental professional accepted, dental procedure. Etching enamel with phosphoric acid safe and effective treatment in the hands of a dental professional accepted, dental procedure. Etching enamel with phosphoric acid safe and effective treatment in the hands of a dental professional accepted, dental procedure. Etching enamel with phosphoric acid etchants to prepare teeth for bond practices. Avoid release into the environment as it may cause variation. 12.0 Disposal Consi				
10.0 Stability and reactivity	9.2.12	Vapor density	Not determined	
10.1 Conditions to avoid 10.2 Materials to avoid 10.2 Materials to avoid 10.3 Materials to avoid 10.3 Hazardous decomposition products 10.4 Further information 10.5 Further information 10.6 Further information 10.7 Toxicological information 10.8 Sensitization 10.9 Carcinogenicity, Mutagenicity, Reproductive Toxicity 10.1 Carcinogenicity, Mutagenicity, Reproductive Toxicity 10.2 Ecological Information 10.3 Segulations 10.4 Further information 10.5 Carcinogenicity, Mutagenicity, Reproductive Toxicity 10.6 Empirical data 10.7 Colinical Experience 10.8 Ecological Information 10.9 Disposal Considerations 10.1 Conditions of avoid strong alkalis because high head reaction can generate steam. Avoid most metals becare phosphoric acid can react to liberate hydrogen, a flammable gas phosphoric acid can react to liberate hydrogen, a flammable gas phosphoric acid can react to liberate hydrogen, a flammable gas phosphoric acid can react to liberate hydrogen, a flammable gas phosphoric acid can react to liberate hydrogen, a flammable gas phosphoric acid can react to liberate hydrogen, a flammable gas phosphoric acid can react to liberate hydrogen, a flammable gas phosphoric acid can react to liberate hydrogen, a flammable gas phosphoric acid and react and storage. 10.4 Further information 10.5 Value and corrosiveness 10.6 Corrosive. May cause burns or irritation to eyes, skin, mouth, the or gastrointestinal tract. Not expected to be an inhalation has unless product is misted or heated at high temperatures. 10.6 Value and corrosiveness 10.7 Carcinogenicity, Mutagenicity, Reproductive None known. 10.8 Not considered a carcinogen, mutagen, teratogen or reproduct toxin. 10.8 Carcinogenicity, Mutagenicity, Reproductive Locking enamed with phosphoric acid and effective treatment in the hands of a dental profession safe and effective treatment in the hands of a dental profession safe and effective treatment in the hands of a dental profession safe and effective treatment in the hands of a dental profession	9.2.13	Evaporation rate	Not determined	
Avoid contact with materials such as sulfides and sulfites that or release toxic gases. Avoid strong alkalis because high hea reaction can generate steam. Avoid most metals because high hea reaction can generate steam. Avoid most metals because high hea reaction can generate steam. Avoid most metals because high hea reaction can generate steam. Avoid most metals because high hea reaction can generate steam. Avoid most metals because high hea reaction can generate steam. Avoid most metals because high hea reaction can generate steam. Avoid most metals because high hea reaction can generate steam. Avoid most metals because phosphoric acid can react to liberate hydrogen, a flammable gas Stable under normal conditions of use and storage. 11.0 Toxicological information 11.1 Acute toxicity 11.2 Irritation and corrosiveness 11.3 Corrosive. May cause burns or irritation to eyes, skin, mouth, the orgastrointestinal tract. Not expected to be an inhalation has unless product is misted or heated at high temperatures. 11.3 Sensitization 11.4 Sub-acute, sub-chronic, prolonged toxicity 11.5 Carcinogenicity, Mutagenicity, Reproductive Toxicity 11.6 Empirical data 11.7 Clinical Experience 11.8 Using phosphoric acid etchants to prepare teeth for bone procedures is a well-established (more than 20 years), indus accepted, dental procedure. Etching enamel with phosphoric acide acare and effective treatment in the hands of a dental professions after an effective treatment in the hands of a dental professions. 12.0 Ecological Information 12.1 Ecotoxicity 13.1 Regulations 14.2 Technical name 14.3 Packing group 1805 Packing group 1806 Packing Group III	10.0	Stability and reactivity		
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 14.2 Technical name Phosphoric acid 14.3 Packing group Packing Group III 	14.0	Transport Information		
14.3 Packing group Packing Group III	14.1	UN Number	1805	
	14.2	Technical name	Phosphoric acid	
14.4 LATA class Class 8 Corrosiva	14.3	Packing group	Packing Group III	
THA IATA Gass of Comosive	14.4	IATA class	Class 8, Corrosive	

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

15.0	Regulatory Information		
15.1	EU	Class Ila 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.	