

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling

General procedures: Avoid contact with eyes, skin and clothing.

Handling: Use suitable protective equipment.

Storage: See product labeling.

7.2. Conditions for Safe Storage, Including any Incompatibilities

Shelf Life: See product labeling

7.3. Specific End Use(s)

Specific end use(s): Professional dental acid etching solution

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

Control Parameters: Not determined

8.2. Exposure Controls

Eye/Face Protection: Wear eye protection

Skin Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Good general ventilation should be sufficient to control airborne levels. In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Physical state: Gel

Colour: Green

Odor: Odorless or no characteristic odor

Solubility in water: Partially soluble in water.

9.2. Other Information

Percent volatile: Not determined

SECTION 10: Stability and Reactivity

10.1. Reactivity

Reactivity : Stable

10.2. Chemical Stability

Chemical Stability: Stable when stored and handled under recommended conditions.

10.3. Possibility of Hazardous Reactions

Hazardous Polymerization: None

10.4. Conditions to Avoid

Conditions to Avoid : Avoid strong bases, metals, excess heat, exposure to moist air or water.

10.5. Incompatible Materials

Incompatible Materials: Strong caustics, most metals.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products: Phosphine, oxides of phosphorous, hydrogen gas

Additional Information: Reacts with bases to form phosphate salts and is corrosive (especially when hot) to many metals and alloys. Liberates explosive hydrogen gas when reacting with chlorides and stainless steel, and reacts violently with sodium tetrahydroborate. Forms flammable gases with sulfides, mercaptans, cyanides, and aldehydes. Also forms toxic fumes with cyanides, sulfides, fluorides, organic peroxides, and halogenated organics.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute

Notes: Device is a strong acid and is extremely toxic. It is to be used only as directed with PPE, and only by licensed dental professionals.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity: Not determined

Aquatic toxicity (acute): Do not allow to enter sewers or drains that may lead to waterways.

96-hour LC₅₀ : Not Determined

48-hour EC₅₀ : Not Determined

96-hour EC₅₀ : Not Determined

12.2. Persistence and Degradability

Persistence and Degradability: Not Determined

12.3. Bioaccumulative Potential

Bioaccumulative Potential: Not determined

12.4. Mobility in Soil

Mobility in soil: Not Determined

12.5. Results of PBT and vPvB Assessment

Results of PBT and vPvB Assessment: Not determined

12.6. Other Adverse Effects

Environmental Data: Not defined

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Disposal Method: Dispose of in compliance with governmental regulation. (EC 1975L0442-20/11/2003)

SECTION 14: Transport Information

14.1. UN number

UN number: 1760

14.2. UN Proper Shipping Name

UN Proper Shipping Name: Corrosive liquid, n.o.s. (Phosphoric acid mixture)

14.3. Transport Hazard Class(es)

Primary Hazard Class/Division: 8

Hazard Classification: 8

14.4. Packing Group

Packing Group: III

14.5. Environmental Hazards

Marine Pollutant #1: N/A

14.6. Special Precautions for User

ADR - Road: N/A

RID - Rail: N/A

IMDG - Sea: N/A

IATA - Air: N/A

14.7. Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code

Transport in Bulk: N/A

SECTION 15: Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

RoHS : Please refer to Medical Devices Directive 93/42/EEC

15.2. Chemical Safety Assessment

Chemical Safety Assessment: See Section 11

Additional Information: IARC has identified cobalt and cobalt compounds as "possibly carcinogenic" as a group, however IARC did not specifically identify the cobalt compound in this product as a possible carcinogen.

OSHA- Select Carcinogens: Present

SECTION 16: Other Information

Relevant R-phrases and/or H-statements (Number and Full Text):

R22: Harmful if swallowed.

R34: Causes burns.

R36/37/38: Irritating to eyes, respiratory system and skin.

Eye Irr., Cat. 2: Eye Irritation, Category 2

STOT SE, Cat. 3: Target Organ Toxicity (Single exposure), Category 3

Skin Corr., Cat. 1B: Skin Corrosion, Category 1B

Skin Irr., Cat. 2: Skin Irritation, Category 2

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Revision Summary: This SDS replaces the 12/17/2014 SDS. Revised: Section 1: GENERAL USE, MSDS No. Section 2: . Section 4: INGESTION, INHALATION, NOTES TO PHYSICIAN, SIGNS AND SYMPTOMS OF OVEREXPOSURE (INHALATION). Section 5: EXPLOSION HAZARDS, FIRE EXPLOSION, FIRE FIGHTING EQUIPMENT, HAZARDOUS COMBUSTION PRODUCTS, SENSITIVE TO STATIC DISCHARGE, SENSITIVITY TO IMPACT. Section 7: STORAGE, . Section 8: PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORY). Section 10: HAZARDOUS POLYMERIZATION, STABLE. Section 11: ACUTE (ORAL LD50 (rat), INHALATION LC50 (rat) ACUTE. Section 12: ECOTOXICOLOGICAL INFORMATION. Section 15: SECTION 15: Regulatory information.

General statements : N/A= Not Applicable

Manufacturer disclaimer : FOR DENTAL USE ONLY: Use as directed. The information and recommendations are taken from sources (raw material SDS(s) and manufacturer's knowledge) believed to be accurate; however, the manufacturer, makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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WARRANTY: Clinician's Choice® Dental Products Inc. will replace FROST, free of charge, if proven to be defective, and when stored according to the manufacturer's specifications. Clinician's Choice Dental Products Inc. does not accept liability for any loss or damage, direct or consequential, arising out of the use of or the inability to use these products. Before using, the user shall determine the suitability of the product(s) for its intended use and the user assumes all risk and liability whatsoever in connection therewith.



FROST™
37% PHOSPHORIC ACID ETCHANT

CLINICIAN'S CHOICE®
DENTAL PRODUCTS INC.

1-800-265-3444

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SEMI-GEL PHOSPHORIC ACID DENTIN/ENAMEL ETCHANT

FROST is a 37% phosphoric etchant solution with an optimum viscosity. The flowability allows precise placement, including occlusal grooves, yet is viscous enough to prevent migration. FROST is self-limiting in its depth of etch (average depth of 1.9µ with 20 second etch). This etchant contains no glycerin and is designed for rapid and complete removal upon rinsing.

INDICATIONS: Used for etching enamel and dentin prior to applying bonding adhesives and placing composite restorations or dental sealants.

DIRECTIONS FOR USE:

1. For 5ml Syringe

- Remove luer cap.
- Securely attach working tip of choice.
- Verify etchant flow prior to applying intraorally.
- Verify the colour and consistency of the product flow before applying. Initially a small amount of clear liquid may express from the syringe; this is normal.

2. For 30ml Syringe

- Remove luer cap from syringe.
- Attach 1.2 syringe to the male threads of the 30ml syringe.
- Depress 30ml syringe plunger while guiding 1.2ml syringe plunger to desired fill.
- Separate syringes and re-cap 30ml syringe with luer cap.
- Securely attach working tip to 1.2ml syringe.

3. Direct placement instructions

- Isolate tooth (teeth).
- Use pumice, disk or diamond bur on uncut enamel.
- Rinse and dry prepared area.
- Verify etchant flow prior to applying intraorally.
- Apply etchant to enamel and dentin (20 seconds)
- Rinse thoroughly, dry and proceed per adhesive manufacturer's instructions.

4. Restorative phosphoric acid cleansing

- Apply etch to inside of porcelain veneer or crown for 5-10 seconds.
- Rinse and dry

PRECAUTIONS AND WARNINGS:

- Carefully read and understand all instructions before using.
- Keep out of reach of children.
- If product comes in contact with any soft tissue, IMMEDIATELY rinse area with copious amounts of water.
- Near pulp exposures should be treated with a protective base prior to placing etchant.
- Re-cap, disinfect and wipe syringe with an intermediate level disinfectant between uses. If syringe cover is used, remove tip, re-cap, and discard syringe cover.
- Dispose of tip and empty syringe properly.

- Verify flow of all syringes prior to applying intraorally. If resistance is met, replace tip and re-check. Use only recommended tips. To avoid cross contamination, do not re-use tips.
- Store at room temperature.
- Do not use after expiration date noted on container.

Safety Data Sheet

Date Issued: 06/05/2007
Date Revised: 12/22/2015

SECTION 1 : Identification of the Substance/Preparation and of the Company/Undertaking

1.1 Product Identifier

Product Code : UR/71041, UW/16036,UZ/16035
Product Name : FROST 37% Phosphoric Acid Etchant
Product Description : Phosphoric acid dental etchant

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Relevant Identified Uses:

Professional dental acid etching solution

1.3. Details of the Supplier of the Safety Data Sheet

Manufacturer/Distributor
Clinician's Choice Dental Products
167 Central Avenue, London, ON, Canada, N6A 1M6
For U.S. Distribution: Brookfield, CT, USA, 06804

1.4. Emergency telephone number (NORTH AMERICA): 1-800-265-3444

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Directive 1999/45/EC: The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Danger symbols: C

R phrases: R34

Classification according to Regulation (EC) No 1272/2008 [CLP]
Health: Skin Corrosion, Category 1B

2.2. Label elements

Classification according to Directive 1999/45/EC
Hazard pictogram(s)



Corrosive

R&S statement(s): R34: Causes burns.
Classification according to Regulation(EC) No 1272/2008 [CLP]

Hazard pictogram(s):



Corrosive

Signal Word: DANGER

Hazard statement(s): H314: Causes severe skin burns and eye damage.

Precautionary statement(s)

Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P315: Get immediate medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P360: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P363: Wash contaminated clothing before reuse.

P301: IF SWALLOWED:

P310: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P331: Do NOT induce vomiting.

Storage : P273: Avoid release to the environment.

Disposal : P501: Dispose of in compliance with governmental regulations (EC 1975L0442-20/11/2003).

2.3. Other Hazards

Immediate concerns: Corrosive. Will cause eye burns and permanent tissue damage.

SECTION 3: Composition/Information on Ingredients

3.1. Substances: Not applicable

3.2. Mixtures

Chemical Name	CAS	EINECS No.	Wt.%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phosphoric Acid	7664-38-2	231-633-2	<40	c;R34	Skin Corr., Cat 1B; H314
Cobalt aluminate blue spinel	1345-16-0	310-193-6	<1	R36/37/38; R22	Skin Irr., Cat. 2; Eye Irr., Cat. 2; STOT SE, Cat. 3; H315; H319; H335

For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Following Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

Following Skin: Remove contaminated clothing. Wash with soap and water. Get medical attention.

Following Ingestion: If swallowed, rinse mouth with water. Do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Following Inhalation: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Eyes: Causes severe eye burns.

Skin: Corrosive, causes skin burning.

Ingestion: Harmful if swallowed.

Inhalation: None expected for this product.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician: Corrosive

SECTION 5: Fire-fighting Measures

5.1. Extinguishing Media

Extinguishing media: Please see Fire Fighting Equipment under Section 5.3.

5.2. Special Hazards Arising from the Substance or Mixture

Hazardous combustion products: Phosphine, oxides of phosphorous, hydrogen gas

5.3. Advice for Firefighters

Fire-fighting Procedures:

General: Evacuate all personnel; use protective equipment for fire-fighting.

Use self-contained breathing apparatus when the product is involved in fire.

Fire-fighting Equipment: The product is not combustible. Substance does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition. Use appropriate media for adjacent fire. Cool containers with water.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General procedures: Refer to Section 8 for Personal Protective Equipment.

6.2. Environmental Precautions

Water spill: Do not allow to enter sewers or drains that may lead to waterways.

6.3. Methods and Material for Containment and Cleaning-up

Small spill: Clean up spills immediately, observing precautions in Protective Equipment section.

Large spill: Absorb with inert, damp non-combustible material, then flush area with water.

6.4. Reference to Other Sections

Reference to Other Sections : Not applicable