

1 Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier:

- **Trade name:** Cobalt-Etch
- **Product code:** CO1001
- **Product Description:** 37% phosphoric acid gel

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

- **Relevant Identified Uses:** For professional use only

1.3 Details of the Supplier of the Safety Data Sheet:

- **Manufacturer/Supplier Name:** Fartak Andishe Borna (FAB Co.)
- **Manufacturer/Supplier Address:** FAB Company, Dental Research Institute, Tehran University of Medical Sciences, Enghelab Sq., Tehran, Iran.
- **Manufacturer/Supplier Telephone Number:** +989355598078
- **Manufacturer/Supplier Zip code:** 1417614311
- **Email address:** info@cobalt-biomed.ir

1.4 Distributer Name:

- **Distributor Address:** Fartak Andishe Borna (FAB Co.)
- **Distributor Telephone Number:** FAB Company, Dental Research Institute, Tehran University of Medical Sciences, Enghelab Sq., Tehran, Iran.
- **Distributor Zip code:** 1417614311
- **Email address:** info@cobalt-biomed.ir

1.5 Emergency Telephone Number: +989355598078

2 Hazards Identification

2.1 Classification of the Substance or Mixture:

Classification according to Regulation (EC) No 1272/2008

- May be corrosive to metals (Category 1), H290
- Causes serious eye damage (Category 1), H318
- Causes serious eye irritation (Category 1), H319
- Causes skin irritation (Category 1), H315

2.2 Label Elements:

Labelling according to Regulation (EC) No 1272/2008

- GHS label elements including precautionary statements

Hazard Pictograms:



GHS05 Corrosion

- **Signal word:** Warning
- **Hazard Statements:** H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage

Precautionary Statement(s)

- **Prevention:**
 - P234 Keep only in original container
 - P260 Do not breathe dust/fume/gas/mist/vapors/spray
 - P280 Wear protective gloves/protective clothing/eye protection/ face protection
 - P264 Wash thoroughly after handling.
- **Response:**
 - P304 +P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P303 +P361 +P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P301 +P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - P363 Wash contaminated clothing before reuse.
 - P301 +P330 +P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P390 Absorb spillage to prevent material damage.
- **Disposal:**
 - P501 Dispose of contents/container according to the related regulations

2.3 **Other hazards:** None Known.

3 Composition/information on ingredients

3.1 **Substances:** Not applicable

3.2 **Mixture:**

Chemical Name	Cas No.	EC No.	% wt.	Classification according to Directive 67/548/EEC
Phosphoric acid	7664- 38-2	231-633-2	<40	C Corrosive R34

The exact concentration is being withheld as a trade secret.
Refer to Section 16 for the full text of the GHS and EU Classifications.



4 First aids measures

4.1 Description of First Aid Measures:

Eye	Immediately flush eyes with plenty of water for at least 30 minutes while holding the eyelids apart. Remove contact lenses, if present and easy to do. Get immediate medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water for at least 30 minutes. Seek immediate medical attention. Launder clothing before re-use.
Inhalation	Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms of exposure persist.
Ingestion	Do not induce vomiting. If conscious, rinse mouth with a small amount of water and give one glass of water to dilute. Never give anything by mouth to an unconscious or drowsy person. Get medical attention.

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

Eye	Causes severe eye irritation and burns
Skin	Corrosive, causes skin burning
Inhalation	None expected for this product. / May cause severe irritation and burns to respiratory tract.
Ingestion	Harmful if swallowed.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

If contact occurs seek immediate medical attention.

Note to Physicians (Treatment, Testing, and Monitoring): Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing media:

- **Extinguishing media:** Water, Foam, Carbon Dioxide, Dry Chemical

5.2 Special hazards arising from the substance or mixture:

- **Hazardous combustion products:** Burning may produce: Carbon Monoxide, Carbon Dioxide
- **Explosion hazards:** Not Determined
- **Fire explosion:** Not Determined
- **Sensitive to static discharge:** Not Determined
- **Sensitivity to impact:** Not Determined

5.3 Advice for firefighters:



- **Firefighting procedures:**

- General: Evacuate all personnel; use protective equipment for firefighting. Use self-contained breathing apparatus when product is involved in fire.

Firefighting equipment: Non-combustible

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Prevent the inflow of this product to waterways, drains, basements, and confined spaces.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Not Applicable

7 Handling and storage

7.1. Precautions for safe handling: Always wear gloves and eye protection. Product is intended for dental use only.

7.2. Conditions for safe storage, including any incompatibilities: Keep out of reach of children. Protect from exposure to direct sun light. Keep container closed. Store in cool place.

7.3. Specific end use(s): Use only professional dentist

8 Exposure controls and personal protection

8.1. Control parameters: Not determined

8.2. Exposure controls:

- **Eye protection:** Wear safety glasses.
- **Skin protection:** Wear suitable protective clothing and gloves.
- **Respiratory protection:** None required.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

- **Appearance:** semi-gel
- **Odor:** N/A
- **Color:** Blue
- **pH:** <1
- **Melting/freezing point:** N/A
- **Initial boiling point and boiling range:** N/A
- **Flash point:** N/A
- **Evaporation rate:** N/A
- **Flammability (solid, gas):** N/A
- **Upper/lower flammability or explosive limits:** N/A
- **Vapor pressure:** N/A
- **Vapor density:** N/A
- **Specific gravity (H₂O=1):** 1.1 -1.2
- **Solubility(ies):** Soluble
- **Partition coefficient:** N/A
- **Auto-ignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Explosive properties:** N/A
- **Oxidizing properties:** N/A

9.2. Other information: None

10 Stability and reactivity

10.1. Reactivity: Stable

10.2. Chemical stability: Stable when stored and handled under recommended conditions.

10.3. Possibility of hazardous reactions: None

10.4. Conditions to avoid: None known.

10.5 Incompatible materials: None known.

10.6. Hazardous decomposition products: CO

11 Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity:** N/A
- **Primary effects to skin:** May mildly irritate skin
- **Primary effects to eyes:** May mildly irritate the eye
- **Primary effects to respiratory system:** Not an acute inhalation hazard
- **Sensitization:** Repeated or prolonged contact with the not polymerized may cause sensitization for methacrylate.
- **Additional toxicological info:** N/A

12 Ecological information



12.1. Toxicity

- Toxicity: Not determined
- Aquatic toxicity(acute): Not determined

12.2. Persistence and degradability: Not determined

12.3. Bioaccumulative potential: Not determined

12.4. Mobility in soil: Not determined

12.5. Results of PBT and vPvB assessment: Not determined

12.6. Other adverse effects: None known

13 Disposal considerations

13.1. Waste treatment methods:

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

14 Transport information

14.1. UN Number: N/A

14.2. UN proper shipping name: N/A

14.3. Transport hazard class(es): N/A

14.4. Packing Group: N/A

14.5. Environmental hazards: 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 MARPOL 73/78 and the IBC Code:

Transport in bulk: N/A

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



16 Other information

The information contained in the Safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.