



1. Identification of the substance/mixture and of the Company/undertaking:

1.1 Product identifier:

Product Name: Super Etch, Super Etch LV and Acid Etch Gel / Liquid

1.2 Relevant identified use:

Relevant use:

Dental professional use: For etching of tooth surfaces by dental professionals.

1.3 Details of the supplier of the Safety Data Sheet:

Manufacturer / Supplier

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2. Hazard Identification

Classification of the substance/mixture:

SIGNAL WORD: DANGER



Corrosion

GHS Classification (according to CLP):
Skin corrosion – category 1B



2. Hazard Identification

Hazard statement(s)

H314 Causes severe skin burns and eye damage

Precautionary statement(s):

P260 Do not breathe fumes/vapours/mist.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/clothing.

P103 Read instructions before use.

Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before re-use.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTRE or doctor/physician.

P321 Specific treatment, refer to First Aid instructions Section 4.

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

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

P101 If medical advice is needed, have product container and instructions for use at hand.

Storage:

P405 Store locked up.

P102 Keep out of reach of children.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Other:

Product is corrosive and may cause destruction of tissue or burns when comes in contact.

3. Composition / Information on ingredients

<u>Composition:</u>	<u>CAS No.</u>	<u>EC No.</u>	<u>Wt. %</u>	<u>Classification:</u>
Phosphoric acid	7664-38-2	231-633-2	37.0	Skin corrosion

Concentration limit, M factor Phosphoric acid: Skin Corr 1B: C ≥ 25%., H314



4. First Aid Measures

- Eye (contact): Flush opened eye with running water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.
- Skin (contact): Remove contaminated clothing. Wash skin with plenty of water. In case of allergic reaction or irritation, seek immediate medical attention.
- Ingestion: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Drink water or milk if safe to do. Seek immediate medical attention.
- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If feeling unwell or concerned, call a POISON CENTRE or doctor/physician.

Most important effects, acute and delayed:

The most important known symptoms and effects are described in section 2 and/or in section 11.

Indication of any immediate medical attention and special treatment needed: No data available.

5. Fire Fighting Measures

- Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unusual Fire and Explosion Hazards: Heat may cause evolution of corrosive fumes.
- Special protective equipment: Wear approved respirator and protective gear. Use water spray to cool containers.
- Unsuitable extinguishing media: No data available.
- Specific hazards arising from the mixture: Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine. Oxides of phosphorus.
- Advice for firefighters: Wear self-contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

- Personal precautions: Do not get into eyes, on skin or clothing. Use personal protective equipment, including protective gloves and safety glasses/goggles. Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
- Environmental precautions: Prevent large spillage from entering waterways, drains or sewage system.
- Methods for cleaning up and containment:
- Wear hand protection and mop up spillage with absorbent paper. Clean area with a wet towel. Dispose according to local regulation as hazardous waste.



7. Handling and storage

- Handling: Replace caps immediately after use.
- Storage: Store in a cool place at temperatures between 10°C and 25°C (50° - 77°F).
- Specific end use: Apart from the use mentioned in section 1.2, there are no other uses for the product.

8. Exposure controls and personal protection

Occupational Exposure Limits:

Control parameters:

Occupational exposure limits (NOHSC, NIOSH, OSHA,):

Standard name	Cas No	TWA (ppm)	TWA (mg/M ³)	STEL (ppm)	STEL (mg/M ³)
Phosphoric acid	7664-38-2	-	1	-	3

NOHSC – National Occupation Health and Safety Commission

NIOSH – National Institute for Occupation Safety and Health

OHSA – Occupational Health and Safety Authority

TWA – Time weighted average

STEL – Short term exposure limit

Control parameters:

Occupational exposure limits: Not aware of any national exposure limit.

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at end of workday.

Personal protective equipment:

Respiratory protection: Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator approved under government standards such as NIOSH (US) or CEN (EU).

Hand protection and body protection: Rubber, latex or PVC gloves.

Full suit protective clothing – the type dependent on the amount of dangerous substance in the workplace.

Eye protection: Safety glasses, goggles or face shield.

General safety & hygiene measures: Follow good housekeeping practices and good industrial hygiene in handling this material.



9. Physical and chemical properties

Appearance:	Blue gel.
Odour:	Acrid.
Boiling point:	Not applicable.
Melting point:	Not applicable.
Specific gravity:	1.3
Flash point:	Not applicable.
Flammable:	Not flammable.
Autoflammability:	Do not self-ignite.
Explosive properties:	Do not present an explosion hazard.
Oxidizing properties:	Not established.
Vapour pressure (@ 20°C):	Not established.
Relative density:	Not established.
Solubility:	Soluble in water.
Auto-ignition temperature:	Not established
Decomposition temperature:	Not established
Initial boiling point and boiling range:	Not established
pH:	Not established

10. Stability and Reactivity

Reactivity:	No data available.
Stability:	Stable under recommended conditions.
Conditions to avoid:	Avoid excessive heat.
Incompatible materials:	Metals and strong bases.
Hazardous decomposition products:	None under normal conditions. Corrosive fumes when heated.



11. Toxicological information

Toxicity to Animals:

Acute oral toxicity (LD50): 1530 mg/kg [Rat].

Acute dermal toxicity (LD50): 2740 mg/kg [Rabbit]

Acute toxicity: Corrosive.

Serious eye damage/irritation: Causes burns.

Skin corrosion/irritation: Causes burns.

Respiratory or skin sensitisation: None expected under normal conditions of use.

Ingestion: Causes burns to soft tissues of the digestive tract.

Germ cell mutagenicity: No data available.

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

(IARC: International Agency for Research on Cancer, by the World Health Organisation (WHO)).

Reproductive toxicity: No data available.

Specific target organ toxicity – single exposure: May cause irritation to eyes, skin & inhalation.

Specific target organ toxicity – repeated exposure: No data available.

Aspiration hazard: No data available.

12. Ecological information

Ecotoxicity: No data available.

Persistence and biodegradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and VPvB assessment: PBT/VPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects: No data available.



13. Disposal considerations

Dispose of in accordance with local official regulations.

Contaminated packaging: Dispose of contaminated packaging as hazardous waste in accordance with local official regulations.

14. Transport information

Phosphoric acid, aqueous solution UN1805 Packing Group III Class 8.

If packed in Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met:

Chemical Kit UN3316 - Class 9.

15. Regulatory information

This product is regulated by: TGA
Medical Devices Directive 93/42/EEC
FDA
National regulations

Labelling according to NOHSC Criteria: CORROSIVE

16. Other information

The information provided herein is given in good faith, but no warranty expressed or implied is made.

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Department issuing SDS: Research and Development

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