

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: Super Etch, Super Etch LV

Manufacturer: SDI Limited

SDS Expiry: 27 April 2031

Supplier Details: Henry Schein New Zealand  
243-249 Bush Road, Rosedale, Auckland, 0632  
PO Box 101 140, North Shore, Auckland 0745  
Ph. 0800 808 855  
[www.henryschein.co.nz](http://www.henryschein.co.nz)

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –  
0800POISON/0800764766 (24 Hours)  
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 8.1A, 8.2A,8.3A

HSNO Group Standard: Dental Products Corrosive Group Standard 2020 HSR002555

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared – May 2026

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.



# Super Etch, Super Etch LV

## SDI Limited

Version No: 9.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Initial Date: 17/11/2015

Revision Date: 27/04/2026

Print Date: 29/04/2026

L.GHS.AUS.EN

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### Product Identifier

|                               |                           |
|-------------------------------|---------------------------|
| Product name                  | Super Etch, Super Etch LV |
| Chemical Name                 | Not Applicable            |
| Synonyms                      | Not Available             |
| Proper shipping name          | PHOSPHORIC ACID, SOLUTION |
| Chemical formula              | Not Applicable            |
| Other means of identification | Not Available             |

#### Relevant identified uses of the substance or mixture and uses advised against

|                          |  |
|--------------------------|--|
| Relevant identified uses | For etching enamel and dentine by dental professionals.<br>Use according to manufacturer's directions. |
|--------------------------|--|

#### Details of the manufacturer or importer of the safety data sheet

| Registered company name | SDI Limited   | SDI (North America) Inc.                               | SDI Germany GmbH                                   |
|-------------------------|---|--|--|
| Address                 | 3-15 Brunson Street Bayswater VIC<br>3153 Australia | 1279 Hamilton Parkway Itasca IL 60143<br>United States | Hansestrasse 85 Cologne D-51149<br>Germany         |
| Telephone               | +61 3 8727 7111                                     | +1 630 361 9200  | +49 0 2203 9255 0                                  |
| Fax                     | +61 3 8727 7222                                     | Not Available  | +49 0 2203 9255 200                                |
| Website                 | <a href="http://www.sdi.com.au">www.sdi.com.au</a>  | <a href="http://www.sdi.com.au">www.sdi.com.au</a>     | <a href="http://www.sdi.com.au">www.sdi.com.au</a> |
| Email                   | info@sdi.com.au                                     | USA.Canada@sdi.com.au                                  | germany@sdi.com.au                                 |

|                         |   |
|-------------------------|---|
| Registered company name | SDI HOLDINGS PTY LTD DO   |
| Address                 | Rua Dr. Reinaldo Schmithausen 3141 – Cordeiros Itajai – SC – CEP 88310-004 Brazil |
| Telephone               | +55 11 3092 7100  |
| Fax                     | Not Available   |
| Website                 | <a href="https://www.sdi.com.au/">https://www.sdi.com.au/</a>                     |
| Email                   | Brasil@sdi.com.au   |

#### Emergency telephone number

|                                     |                                   |                                     |
|-------------------------------------|-----------------------------------|-------------------------------------|
| Association / Organisation          | SDI Limited                       | CHEMWATCH EMERGENCY RESPONSE (24/7) |
| Emergency telephone number(s)       | 131126 Poisons Information Centre | +61 1800 951 288 (ID#: 5198-05)     |
| Other emergency telephone number(s) | +61 3 8727 7111                   | +61 3 9573 3188                     |

### SECTION 2 Hazards identification

#### Classification of the substance or mixture

|                               |  |
|-------------------------------|--|
| Poisons Schedule              | Not Applicable   |
| Classification <sup>[1]</sup> | Corrosive to Metals Category 1, Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1                  |
| Legend:                       | 1. Classification by vendor; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |

#### Label elements

|                     |        |
|---------------------|--------|
| Hazard pictogram(s) |        |
| Signal word         | Danger |

#### Hazard statement(s)

## Super Etch, Super Etch LV

|      |  |
|------|--|
| H290 | May be corrosive to metals.              |
| H314 | Causes severe skin burns and eye damage. |

### Supplementary statement(s)

Not Applicable

### Precautionary statement(s) Prevention

|      |  |
|------|--|
| P260 | Do not breathe mist/vapours/spray.   |
| P264 | Wash all exposed external body areas thoroughly after handling.                  |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |
| P234 | Keep only in original packaging.   |

### Precautionary statement(s) Response

|                |  |
|----------------|--|
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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. |
| P310           | Immediately call a POISON CENTER/doctor/physician/first aider.   |
| P363           | Wash contaminated clothing before reuse.   |
| P390           | Absorb spillage to prevent material damage.  |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |

### Precautionary statement(s) Storage

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

### Precautionary statement(s) Disposal

|      |  |
|------|--|
| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|--|

No further product hazard information.

## SECTION 3 Composition / information on ingredients

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No         | %[weight]   | Name                    |
|----------------|---|-------------------------|
| 7664-38-2      | 37  | <u>phosphoric acid</u>  |
| 7631-86-9      | 1-5   | <u>silica amorphous</u> |
| <b>Legend:</b> | 1. Classification by vendor; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available |                         |

## SECTION 4 First aid measures

### Description of first aid measures

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| <b>Skin Contact</b> | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>▶ Quickly remove all contaminated clothing, including footwear.</li> <li>▶ Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>▶ Transport to hospital, or doctor.</li> </ul> <p>Seek medical attention.</p>  |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul>  |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ <b>If swallowed do NOT induce vomiting.</b></li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>▶ Seek medical advice.</li> </ul> <p>Rinse mouth with water.</p>  |

### Indication of any immediate medical attention and special treatment needed

Continued...

## Super Etch, Super Etch LV

Treat symptomatically.

### SECTION 5 Firefighting measures

#### Extinguishing media

- ▶ Water spray or fog.
- ▶ Foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide.

#### Special hazards arising from the substrate or mixture

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

#### Advice for firefighters

|                              |   |
|------------------------------|---|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear full body protective clothing with breathing apparatus.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Use fire fighting procedures suitable for surrounding area.</li> <li>▶ <b>Do not approach containers suspected to be hot.</b></li> <li>▶ Cool fire exposed containers with water spray from a protected location.</li> <li>▶ If safe to do so, remove containers from path of fire.</li> <li>▶ Equipment should be thoroughly decontaminated after use.</li> </ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered to be a significant fire risk.</li> <li>▶ Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ May emit corrosive, poisonous fumes. May emit acrid smoke.</li> </ul> <p>Decomposition may produce toxic fumes of:<br/>phosphorus oxides (POx)</p>  |
| <b>HAZCHEM</b>               | 2R  |

### SECTION 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### Environmental precautions

See section 12

#### Methods and material for containment and cleaning up

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.</li> <li>▶ Check regularly for spills and leaks.</li> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment.</li> <li>▶ Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>▶ Wipe up.</li> <li>▶ Place in a suitable, labelled container for waste disposal.</li> </ul>  |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear full body protective clothing with breathing apparatus.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Stop leak if safe to do so.</li> <li>▶ Contain spill with sand, earth or vermiculite.</li> <li>▶ Collect recoverable product into labelled containers for recycling.</li> <li>▶ Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>▶ Collect solid residues and seal in labelled drums for disposal.</li> <li>▶ Wash area and prevent runoff into drains.</li> <li>▶ After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>▶ If contamination of drains or waterways occurs, advise emergency services.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### SECTION 7 Handling and storage

#### Precautions for safe handling

|                          |   |
|--------------------------|---|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ Avoid skin contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Avoid contact with moisture.</li> <li>▶ Avoid contact with incompatible materials.</li> <li>▶ <b>When handling, DO NOT eat, drink or smoke.</b></li> <li>▶ Keep containers securely sealed when not in use.</li> <li>▶ Avoid physical damage to containers.</li> <li>▶ Always wash hands with soap and water after handling.</li> <li>▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>▶ Use good occupational work practice.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
| <b>Other information</b> | Store between 10 and 25 deg. C.   |

Continued...

## Super Etch, Super Etch LV

Store in a cool dry place.

## Conditions for safe storage, including any incompatibilities

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | ▶ <b>DO NOT</b> repack. Use containers supplied by manufacturer only.             |
| <b>Storage incompatibility</b> | ▶ Avoid strong bases.<br>▶ Avoid contact with copper, aluminium and their alloys. |

## SECTION 8 Exposure controls / personal protection

## Control parameters

## Occupational Exposure Limits (OEL)

## INGREDIENT DATA


| Source   | Ingredient       | Material name   | TWA      | STEL          | Peak          | Notes  |
|--|------------------|---|----------|---------------|---------------|--|
| Australia Exposure Standards   | phosphoric acid  | Phosphoric acid   | 1 mg/m3  | 3 mg/m3       | Not Available | Not Available  |
| Australia Workplace exposure limits for airborne contaminants (WEL list) (Effective from 1 December 2026) - Appendix A - Workplace Exposure Limits | phosphoric acid  | Phosphoric acid   | 1 mg/m3  | 3 mg/m3       | Not Available | Not Available  |
| Australia Exposure Standards   | silica amorphous | Silica gel  | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards   | silica amorphous | Silica - Amorphous: Fume (thermally generated)(respirable dust)         | 2 mg/m3  | Not Available | Not Available | (e) Containing no asbestos and < 1% crystalline silica.                                  |
| Australia Exposure Standards   | silica amorphous | Silica - Amorphous: Precipitated silica                                 | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards   | silica amorphous | Fumed silica (respirable dust)  | 2 mg/m3  | Not Available | Not Available | Not Available  |
| Australia Exposure Standards   | silica amorphous | Silica - Amorphous: Diatomaceous earth (uncalcined)                     | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards   | silica amorphous | Precipitated silica   | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards   | silica amorphous | Diatomaceous earth (uncalcined)   | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Exposure Standards   | silica amorphous | Silica - Amorphous: Fumed silica (respirable dust)                      | 2 mg/m3  | Not Available | Not Available | Not Available  |
| Australia Exposure Standards   | silica amorphous | Silica - Amorphous: Silica gel  | 10 mg/m3 | Not Available | Not Available | (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. |
| Australia Workplace exposure limits for airborne contaminants (WEL list) (Effective from 1 December 2026) - Appendix A - Workplace Exposure Limits | silica amorphous | Silica - Amorphous: Fumed Silica (respirable dust)                      | 2 mg/m3  | Not Available | Not Available | Containing no asbestos and < 1% crystalline silica.                                      |
| Australia Workplace exposure limits for airborne contaminants (WEL list) (Effective from 1 December 2026) - Appendix A - Workplace Exposure Limits | silica amorphous | Silica - Amorphous: Silica Fume (thermally generated) (respirable dust) | 2 mg/m3  | Not Available | Not Available | Containing no asbestos and < 1% crystalline silica.                                      |
| Australia Workplace exposure limits for airborne contaminants (WEL list) (Effective from 1 December 2026) - Appendix A - Workplace Exposure Limits | silica amorphous | Silica - Amorphous: Diatomaceous earth (uncalcined)                     | 10 mg/m3 | Not Available | Not Available | Containing no asbestos and < 1% crystalline silica.                                      |
| Australia Workplace exposure limits for airborne contaminants (WEL list) (Effective from 1 December 2026) - Appendix A - Workplace Exposure Limits | silica amorphous | Silica - Amorphous: Silica gel  | 10 mg/m3 | Not Available | Not Available | Containing no asbestos and < 1% crystalline silica.                                      |
| Australia Workplace exposure limits for airborne contaminants (WEL list) (Effective from 1 December 2026) - Appendix A - Workplace Exposure Limits | silica amorphous | Silica - Amorphous: Precipitated silica                                 | 10 mg/m3 | Not Available | Not Available | Containing no asbestos and < 1% crystalline silica.                                      |

## MATERIAL DATA

Continued...

## Super Etch, Super Etch LV

## Exposure controls

| <b>Appropriate engineering controls</b>  | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> <p>General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.</p> |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
|--|--|-----------------------------|------------------------|---|---------------------------------|--|----------------------------------|----------------------------------|-------------------------------|---|----------------------------------|
|  | Type of Contaminant:   | Air Speed:                  |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
|  | solvent, vapours, degreasing etc., evaporating from tank (in still air).   | 0.25-0.5 m/s (50-100 f/min) |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
|  | aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)  | 0.5-1 m/s (100-200 f/min.)  |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)   | 1-2.5 m/s (200-500 f/min.)   |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion)  | 2.5-10 m/s (500-2000 f/min.)   |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <p>Within each range the appropriate value depends on:</p> <table border="1"> <thead> <tr> <th>Lower end of the range</th> <th>Upper end of the range</th> </tr> </thead> <tbody> <tr> <td>1: Room air currents minimal or favourable to capture</td> <td>1: Disturbing room air currents</td> </tr> <tr> <td>2: Contaminants of low toxicity or of nuisance value only.</td> <td>2: Contaminants of high toxicity</td> </tr> <tr> <td>3: Intermittent, low production.</td> <td>3: High production, heavy use</td> </tr> <tr> <td>4: Large hood or large air mass in motion</td> <td>4: Small hood-local control only</td> </tr> </tbody> </table> <p>Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.</p> |  | Lower end of the range      | Upper end of the range | 1: Room air currents minimal or favourable to capture | 1: Disturbing room air currents | 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity | 3: Intermittent, low production. | 3: High production, heavy use | 4: Large hood or large air mass in motion | 4: Small hood-local control only |
| Lower end of the range   | Upper end of the range   |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| 1: Room air currents minimal or favourable to capture  | 1: Disturbing room air currents  |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| 2: Contaminants of low toxicity or of nuisance value only.   | 2: Contaminants of high toxicity   |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| 3: Intermittent, low production.   | 3: High production, heavy use  |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| 4: Large hood or large air mass in motion  | 4: Small hood-local control only   |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Individual protection measures, such as personal protective equipment</b>   |   |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Eye and face protection</b>   | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>   |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Skin protection</b>   | See Hand protection below  |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Hands/feet protection</b>   | <ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>▶ Rubber Gloves</li> </ul>  |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Body protection</b>   | See Other protection below   |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |
| <b>Other protection</b>  | <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ PVC Apron.</li> <li>▶ PVC protective suit may be required if exposure severe.</li> <li>▶ Eyewash unit.</li> <li>▶ Ensure there is ready access to a safety shower.</li> </ul>  |                             |                        |   |                                 |  |                                  |                                  |                               |   |                                  |

## Ansell Glove Selection

Glove — In order of recommendation

|                          |
|--------------------------|
| AlphaTec 02-100          |
| AlphaTec® Solvex® 37-185 |
| AlphaTec® 58-008         |
| AlphaTec® 58-530B        |
| AlphaTec® 58-530W        |
| AlphaTec® 58-735         |
| AlphaTec® 79-700         |
| AlphaTec® Solvex® 37-675 |
| AlphaTec® 38-612         |
| DermaShield™ 73-711      |

The suggested gloves for use should be confirmed with the glove supplier.

## Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 &amp; 1715, EN 143:2000 &amp; 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator  |
|------------------------------------|----------------------|----------------------|-------------------------|
| up to 10 x ES                      | B-AUS P2             | -                    | B-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | B-AUS / Class 1 P2   | -                       |
| up to 100 x ES                     | -                    | B-2 P2               | B-PAPR-2 P2 ^           |

^ - Full-face

Continued...

## Super Etch, Super Etch LV

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

### SECTION 9 Physical and chemical properties

#### Information on basic physical and chemical properties

|  |  |   |                |
|--|--|---|----------------|
| <b>Appearance</b>  | Blue gel with acrid odour, mixes with water. |   |                |
| <b>Physical state</b>  | Gel  | <b>Relative density (Water = 1)</b>                                   | 1.3            |
| <b>Odour</b>   | Not Available                                | <b>Partition coefficient n-octanol / water</b>                        | Not Available  |
| <b>Odour threshold</b>   | Not Available                                | <b>Auto-ignition temperature (°C)</b>                                 | Not Available  |
| <b>pH (as supplied)</b>  | <1   | <b>Decomposition temperature (°C)</b>                                 | Not Available  |
| <b>Melting point / freezing point (°C)</b>                       | Not Applicable                               | <b>Viscosity (cSt)</b>  | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b>              | Not Applicable                               | <b>Molecular weight (g/mol)</b>                                       | Not Applicable |
| <b>Flash point (°C)</b>  | Not Available                                | <b>Taste</b>  | Not Available  |
| <b>Evaporation rate</b>  | Not Available                                | <b>Explosive properties</b>   | Not Available  |
| <b>Flammability</b>  | Not Applicable                               | <b>Oxidising properties</b>   | Not Available  |
| <b>Upper Explosive Limit (%)</b>                                 | Not Available                                | <b>Surface Tension (dyn/cm or mN/m)</b>                               | Not Available  |
| <b>Lower Explosive Limit (%)</b>                                 | Not Available                                | <b>Volatile Component (%vol)</b>                                      | Not Available  |
| <b>Vapour pressure (kPa)</b>                                     | Not Available                                | <b>Gas group</b>  | Not Available  |
| <b>Solubility in water</b>                                       | Miscible                                     | <b>pH as a solution (1%)</b>  | Not Available  |
| <b>Vapour density (Air = 1)</b>                                  | Not Available                                | <b>VOC g/L</b>  | Not Available  |
| <b>Heat of Combustion (kJ/g)</b>                                 | Not Available                                | <b>Ignition Distance (cm)</b>   | Not Available  |
| <b>Flame Height (cm)</b>   | Not Available                                | <b>Flame Duration (s)</b>   | Not Available  |
| <b>Enclosed Space Ignition Time Equivalent (s/m<sup>3</sup>)</b> | Not Available                                | <b>Enclosed Space Ignition Deflagration Density (g/m<sup>3</sup>)</b> | Not Available  |

### SECTION 10 Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | See section 7                                   |
| <b>Chemical stability</b>                 | ▶ Contact with alkaline material liberates heat |
| <b>Possibility of hazardous reactions</b> | See section 7                                   |
| <b>Conditions to avoid</b>                | See section 7                                   |
| <b>Incompatible materials</b>             | See section 7                                   |
| <b>Hazardous decomposition products</b>   | See section 5                                   |

### SECTION 11 Toxicological information

#### Information on toxicological effects

|   |  |
|---|--|
| <b>a) Acute Toxicity</b>                    | Based on available data, the classification criteria are not met.  |
| <b>b) Skin Irritation/Corrosion</b>         | There is sufficient evidence to classify this material as skin corrosive or irritating.  |
| <b>c) Serious Eye Damage/Irritation</b>     | There is sufficient evidence to classify this material as eye damaging or irritating   |
| <b>d) Respiratory or Skin sensitisation</b> | Based on available data, the classification criteria are not met.  |
| <b>e) Mutagenicity</b>                      | Based on available data, the classification criteria are not met.  |
| <b>f) Carcinogenicity</b>                   | Based on available data, the classification criteria are not met.  |
| <b>g) Reproductivity</b>                    | Based on available data, the classification criteria are not met.  |
| <b>h) STOT - Single Exposure</b>            | Based on available data, the classification criteria are not met.  |
| <b>i) STOT - Repeated Exposure</b>          | Based on available data, the classification criteria are not met.  |
| <b>j) Aspiration Hazard</b>                 | Based on available data, the classification criteria are not met.  |
| <b>Inhaled</b>                              | The material is not thought to produce adverse health effects following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.                  |
| <b>Ingestion</b>                            | The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Accidental ingestion of the material may be damaging to the health of the individual.   |
| <b>Skin Contact</b>                         | The material can produce chemical burns following direct contact with the skin. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |

Continued...

## Super Etch, Super Etch LV

|                                  |   |  |
|----------------------------------|---|--|
| <b>Eye</b>                       | The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.   |  |
| <b>Chronic</b>                   | <p>Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.</p> <p>Repeated or prolonged exposure to acids may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis.</p> <p>The impact of inhaled acidic agents on the respiratory tract depends upon a number of interrelated factors. These include physicochemical characteristics, e.g., gas versus aerosol; particle size (small particles can penetrate deeper into the lung); water solubility (more soluble agents are more likely to be removed in the nose and mouth). Given the general lack of information on the particle size of aerosols involved in occupational exposures to acids, it is difficult to identify their principal deposition site within the respiratory tract. Acid mists containing particles with a diameter of up to a few micrometers will be deposited in both the upper and lower airways. They are irritating to mucous epithelia, they cause dental erosion, and they produce acute effects in the lungs (symptoms and changes in pulmonary function). Asthmatics appear to be at particular risk for pulmonary effects.</p> |  |
| <b>Super Etch, Super Etch LV</b> | <b>TOXICITY</b><br>Not Available  | <b>IRRITATION</b><br>Not Available   |
| <b>phosphoric acid</b>           | <b>TOXICITY</b><br>Dermal (rabbit) LD50: >1260 mg/kg <sup>[2]</sup><br>Inhalation (Rat) LC50: 0.026 mg/L4h <sup>[2]</sup><br>Oral (Rat) LD50: 1530 mg/kg <sup>[2]</sup>   | <b>IRRITATION</b><br>Eye: adverse effect observed (irritating) <sup>[1]</sup><br>Skin: adverse effect observed (corrosive) <sup>[1]</sup>  |
| <b>silica amorphous</b>          | <b>TOXICITY</b><br>dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup><br>Inhalation (Rat) LC50: >0.09<0.84 mg/l4h <sup>[1]</sup><br>Oral (Rat) LD50: >1000 mg/kg <sup>[1]</sup>  | <b>IRRITATION</b><br>Eye (Rodent - rabbit): 25mg/24H - Mild<br>Eye: no adverse effect observed (not irritating) <sup>[1]</sup><br>Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| <b>Legend:</b>                   | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances   |  |

|                         |   |
|-------------------------|---|
| <b>PHOSPHORIC ACID</b>  | <p>phosphoric acid ( 85%)<br/>No significant acute toxicological data identified in literature search.<br/>for acid mists, aerosols, vapours</p> <p>Data from assays for genotoxic activity in vitro suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Cells from the respiratory tract have not been examined in this respect. Mucous secretion may protect the cells of the airways from direct exposure to inhaled acidic mists, just as mucous plays an important role in protecting the gastric epithelium from its auto-secreted hydrochloric acid. In considering whether pH itself induces genotoxic events in vivo in the respiratory system, comparison should be made with the human stomach, in which gastric juice may be at pH 1-2 under fasting or nocturnal conditions, and with the human urinary bladder, in which the pH of urine can range from &lt;5 to &gt; 7 and normally averages 6.2. Furthermore, exposures to low pH in vivo differ from exposures <i>in vitro</i> in that, <i>in vivo</i>, only a portion of the cell surface is subjected to the adverse conditions, so that perturbation of intracellular homeostasis may be maintained more readily than in vitro.</p> <p>The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p> <p>The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis.</p> <p>Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.</p> <p>Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.</p> |
| <b>SILICA AMORPHOUS</b> | <p>Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS]<br/>For silica amorphous:<br/>Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d.<br/>In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical irritation of the eye and drying/cracking of the skin.</p> <p>When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken down (metabolised) in mammals.</p> <p>After ingestion, there is limited accumulation of SAS in body tissues and rapid elimination occurs. Intestinal absorption has not been calculated, but appears to be insignificant in animals and humans. SASs injected subcutaneously are subjected to rapid dissolution and removal. There is no indication of metabolism of SAS in animals or humans based on chemical structure and available data. In contrast to crystalline silica, SAS is soluble in physiological media and the soluble chemical species that are formed are eliminated via the urinary tract without modification.</p> <p>Both the mammalian and environmental toxicology of SASs are significantly influenced by the physical and chemical properties, particularly those of solubility and particle size. SAS has no acute intrinsic toxicity by inhalation. Adverse effects, including suffocation, that have been reported were caused by the presence of high numbers of respirable particles generated to meet the required test atmosphere. These results are not representative of exposure to commercial SASs and should not be used for human risk assessment. Though repeated exposure of the skin may cause dryness and cracking, SAS is not a skin or eye irritant, and it is not a sensitiser.</p> <p>Repeated-dose and chronic toxicity studies confirm the absence of toxicity when SAS is swallowed or upon skin contact.</p> <p>Long-term inhalation of SAS caused some adverse effects in animals (increases in lung inflammation, cell injury and lung collagen content), all of which subsided after exposure.</p>   |

## Super Etch, Super Etch LV

Numerous repeated-dose, subchronic and chronic inhalation toxicity studies have been conducted with SAS in a number of species, at airborne concentrations ranging from 0.5 mg/m<sup>3</sup> to 150 mg/m<sup>3</sup>. Lowest-observed adverse effect levels (LOAELs) were typically in the range of 1 to 50 mg/m<sup>3</sup>. When available, the no-observed adverse effect levels (NOAELs) were between 0.5 and 10 mg/m<sup>3</sup>. The difference in values may be explained by different particle size, and therefore the number of particles administered per unit dose. In general, as particle size decreases so does the NOAEL/LOAEL.

Neither inhalation nor oral administration caused neoplasms (tumours). SAS is not mutagenic in vitro. No genotoxicity was detected in in vivo assays. SAS does not impair development of the foetus. Fertility was not specifically studied, but the reproductive organs in long-term studies were not affected.

For Synthetic Amorphous Silica (SAS)

Repeated dose toxicity

Oral (rat), 2 weeks to 6 months, no significant treatment-related adverse effects at doses of up to 8% silica in the diet.

Inhalation (rat), 13 weeks, Lowest Observed Effect Level (LOEL) = 1.3 mg/m<sup>3</sup> based on mild reversible effects in the lungs. Inhalation (rat), 90 days, LOEL = 1 mg/m<sup>3</sup> based on reversible effects in the lungs and effects in the nasal cavity.

For silane treated synthetic amorphous silica:

Repeated dose toxicity: oral (rat), 28-d, diet, no significant treatment-related adverse effects at the doses tested.

There is no evidence of cancer or other long-term respiratory health effects (for example, silicosis) in workers employed in the manufacture of SAS. Respiratory symptoms in SAS workers have been shown to correlate with smoking but not with SAS exposure, while serial pulmonary function values and chest radiographs are not adversely affected by long-term exposure to SAS.

The substance is classified by IARC as Group 3:

**NOT** classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✗ | Carcinogenicity          | ✗ |
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | ✗ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ✗ |
| Respiratory or Skin sensitisation | ✗ | STOT - Repeated Exposure | ✗ |
| Mutagenicity                      | ✗ | Aspiration Hazard        | ✗ |

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
 ✓ – Data available to make classification

## SECTION 12 Ecological information

## Toxicity

| Super Etch, Super Etch LV | Endpoint   | Test Duration (hr) | Species                       | Value            | Source        |
|---------------------------|--|--------------------|-------------------------------|------------------|---------------|
|                           | Not Available  | Not Available      | Not Available                 | Not Available    | Not Available |
| phosphoric acid           | Endpoint   | Test Duration (hr) | Species                       | Value            | Source        |
|                           | EC50   | 72h                | Algae or other aquatic plants | 77.9mg/l         | 2             |
|                           | EC50   | 48h                | Crustacea                     | >100mg/l         | 2             |
|                           | NOEC(ECx)  | 72h                | Algae or other aquatic plants | <7.5mg/l         | 2             |
|                           | LC50   | 96h                | Fish                          | 67.94-113.76mg/L | 4             |
| silica amorphous          | Endpoint   | Test Duration (hr) | Species                       | Value            | Source        |
|                           | EC50   | 72h                | Algae or other aquatic plants | 14.1mg/l         | 2             |
|                           | EC50   | 48h                | Crustacea                     | >86mg/l          | 2             |
|                           | EC50   | 96h                | Algae or other aquatic plants | 217.576mg/l      | 2             |
|                           | EC0(ECx)   | 24h                | Crustacea                     | >=10000mg/l      | 1             |
|                           | LC50   | 96h                | Fish                          | 1033.016mg/l     | 2             |
| <b>Legend:</b>            | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. US EPA, Ecotox database - Aquatic Toxicity Data 4. ECETOC Aquatic Hazard Assessment Data 5. NITE (Japan) - Bioconcentration Data 6. METI (Japan) - Bioconcentration Data 7. Vendor Data |                    |                               |                  |               |

**DO NOT** discharge into sewer or waterways.

## Persistence and degradability

| Ingredient       | Persistence: Water/Soil | Persistence: Air |
|------------------|-------------------------|------------------|
| phosphoric acid  | HIGH                    | HIGH             |
| silica amorphous | LOW                     | LOW              |

## Bioaccumulative potential

| Ingredient       | Bioaccumulation       |
|------------------|-----------------------|
| phosphoric acid  | LOW (LogKOW = -0.77)  |
| silica amorphous | LOW (LogKOW = 0.5294) |

## Mobility in soil

| Ingredient       | Mobility              |
|------------------|-----------------------|
| phosphoric acid  | HIGH (Log KOC = 1)    |
| silica amorphous | LOW (Log KOC = 23.74) |

Continued...

## Super Etch, Super Etch LV


## SECTION 13 Disposal considerations

## Waste treatment methods

|                              |  |
|------------------------------|--|
| Product / Packaging disposal | <ul style="list-style-type: none"> <li>▶ <b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>▶ Where in doubt contact the responsible authority.</li> <li>▶ Recycle wherever possible.</li> <li>▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>▶ Treat and neutralise at an approved treatment plant. Treatment should involve: Mixing or slurring in water; Neutralisation followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)</li> <li>▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul> |
|------------------------------|--|

## SECTION 14 Transport information

## Labels Required

|                  |   |
|------------------|---|
|                  |  |
| Marine Pollutant | NO  |
| HAZCHEM          | 2R  |

## Land transport (ADG)

|                                    |                           |                |
|------------------------------------|---------------------------|----------------|
| 14.1. UN number or ID number       | 1805                      |                |
| 14.2. UN proper shipping name      | PHOSPHORIC ACID, SOLUTION |                |
| 14.3. Transport hazard class(es)   | Class                     | 8              |
|                                    | Subsidiary Hazard         | Not Applicable |
| 14.4. Packing group                | III                       |                |
| 14.5. Environmental hazard         | Not Applicable            |                |
| 14.6. Special precautions for user | Special provisions        | 223            |
|                                    | Limited quantity          | 5 L            |

## Air transport (ICAO-IATA / DGR)

|                                    |   |                |
|------------------------------------|---|----------------|
| 14.1. UN number                    | 1805  |                |
| 14.2. UN proper shipping name      | Phosphoric acid, solution                                 |                |
| 14.3. Transport hazard class(es)   | ICAO/IATA Class   | 8              |
|                                    | ICAO / IATA Subsidiary Hazard                             | Not Applicable |
|                                    | ERG Code  | 8L             |
| 14.4. Packing group                | III   |                |
| 14.5. Environmental hazard         | Not Applicable  |                |
| 14.6. Special precautions for user | Special provisions  | A3 A803        |
|                                    | Cargo Only Packing Instructions                           | 856            |
|                                    | Cargo Only Maximum Qty / Pack                             | 60 L           |
|                                    | Passenger and Cargo Packing Instructions                  | 852            |
|                                    | Passenger and Cargo Maximum Qty / Pack                    | 5 L            |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions | Y841           |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack            | 1 L            |

## Sea transport (IMDG-Code / GGVSee)

|                                    |                          |                |
|------------------------------------|--------------------------|----------------|
| 14.1. UN number                    | 1805                     |                |
| 14.2. UN proper shipping name      | PHOSPHORIC ACID SOLUTION |                |
| 14.3. Transport hazard class(es)   | IMDG Class               | 8              |
|                                    | IMDG Subsidiary Hazard   | Not Applicable |
| 14.4. Packing group                | III                      |                |
| 14.5. Environmental hazard         | Not Applicable           |                |
| 14.6. Special precautions for user | EMS Number               | F-A, S-B       |

## Super Etch, Super Etch LV

|                    |     |
|--------------------|-----|
| Special provisions | 223 |
| Limited Quantities | 5 L |

**14.7. Maritime transport in bulk according to IMO instruments****14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code**

| Product name     | Group          |
|------------------|----------------|
| phosphoric acid  | Not Applicable |
| silica amorphous | Not Applicable |

**14.7.3. Transport in bulk in accordance with the IGC Code**

| Product name     | Ship Type      |
|------------------|----------------|
| phosphoric acid  | Not Applicable |
| silica amorphous | Not Applicable |

If packed as Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met: Chemical Kit UN3316 - Class 9, SP A44 &amp; A163.

**SECTION 15 Regulatory information****Safety, health and environmental regulations / legislation specific for the substance or mixture****phosphoric acid is found on the following regulatory lists**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
 Australian Inventory of Industrial Chemicals (AIIC)

**silica amorphous is found on the following regulatory lists**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australian Inventory of Industrial Chemicals (AIIC)  
 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic  
 International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

**Additional Regulatory Information**

Not Applicable

**National Inventory Status**

| National Inventory                                | Status  |
|---|---|
| Australia - AIIC / Australia Non-Industrial Use   | Yes   |
| Canada - DSL                                      | Yes   |
| Canada - NDSL                                     | No (phosphoric acid)  |
| China - IECSC                                     | Yes   |
| Europe - EINEC / ELINCS / NLP                     | Yes   |
| Japan - ENCS                                      | Yes   |
| Korea - KECI                                      | Yes   |
| New Zealand - NZIoC                               | Yes   |
| Philippines - PICCS                               | Yes   |
| USA - TSCA  | All chemical substances in this product have been designated as TSCA Inventory 'Active'   |
| Taiwan - TCSI                                     | Yes   |
| Mexico - INSQ                                     | Yes   |
| Vietnam - NCI                                     | Yes   |
| Russia - FBEPH                                    | Yes   |
| UAE - Control List (Banned/Restricted Substances) | No (silica amorphous)   |
| <b>Legend:</b>                                    | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

**SECTION 16 Other information**

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 27/04/2026 |
| <b>Initial Date</b>  | 17/11/2015 |

**SDS Version Summary**

| Version | Date of Update | Sections Updated  |
|---------|----------------|---|
| 8.1     | 17/04/2026     | Hazards identification - Classification, Composition / information on ingredients - Ingredients |
| 9.1     | 27/04/2026     | Identification of the substance / mixture and of the company / undertaking - Use                |

Continued...

**Super Etch, Super Etch LV****Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**Definitions and abbreviations**

- ▶ PC - TWA: Permissible Concentration-Time Weighted Average
- ▶ PC - STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit,
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEL: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ MARPOL: International Convention for the Prevention of Pollution from Ships
- ▶ IMSBC: International Maritime Solid Bulk Cargoes Code
- ▶ IGC: International Gas Carrier Code
- ▶ IBC: International Bulk Chemical Code
  
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European Inventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

**Other information:**

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