

SAFETY DATA SHEETS

This SDS packet was issued with item:

076316137

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

071011477 076318398 076318455 076318463 076318471

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

076203004 076203244 076316111



1. Substance / Preparation and Company name

Product Name: Conseal-Clear, Conseal-Light Grey, Conseal F (White)

Recommended use: For the protection of pits and fissures.

Manufacturer / Supplier

SDI Limited
3-13 Brunsdon Street, Bayswater
Victoria, 3153, Australia

Telephone:

+61 3 8727 7111 (Business hours)

Southern Dental Industries Ltd
Block 8, St Johns Court
Swords Road
Santry, Dublin 9, Ireland

Telephone:

+353 1 886 9577 (Business Hours)

SDI Inc.
729 N.Route 83, Suite 315
Bensenville 60106 IL, USA

Telephone:

630 238 8300 (Business hours)

SDI Brasil Indústria e Comércio Ltda
Rua Dr. Virgílio de Carvalho Pinto, 612
Pinheiros, São Paulo, 05415-020
Brasil

Telephone:

+55 11 3092 7100 (Business Hours)

Emergency contact number: +61 3 8727 7111

2. Composition / Information on ingredients

<u>Composition:</u>	<u>CAS No.</u>	<u>Wt. %</u>
Conseal-Clear		
Acrylic monomer	-	100.0
Conseal-Light Grey		
Acrylic monomer	-	80.0
Balance ingredient (non-hazardous)		20.0
Conseal F (White)		
Acrylic monomer	-	93.0
Balance ingredient (non-hazardous)		7.0



3. Hazard Identification

Products may cause irritation to the skin, eye and mucous membrane. Ingestion of unpolymerised material may cause gastric irritation. In isolated cases, contact allergies have been reported with acrylic resins. Anyone with known history of resin allergies are advised to seek the advice of a specialist before use.

Risk phrases - **36/37/38**: Irritating to eyes, respiratory system and skin.

Safety phrases - **26/28**: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with soap and water.

- **3/15/16**: Keep in a cool place, away from heat and sources of ignition.

- **2**: Keep out of reach of children.

4. First Aid Measures

Eye (contact): Flush opened eye with running water for at least 5 minutes. Seek medical attention.

Skin (contact): Remove contaminated clothing. Wash skin with soap and water. In case of allergic reaction, seek medical attention.

Ingestion: Seek medical attention.

5. Fire Fighting Measures

Suitable extinguishing media: Dry powder, vapourizing liquid or foam extinguisher.

Unusual Fire and Explosion Hazards: Heat can cause polymerization with rapid release of energy which may melt the container.

Special protective equipment: No special measures required for small quantity. Use water spray to cool container.

6. Accidental Release Measures

Personal precautions: Not required.

Environmental precautions: Prevent any spillage from entering waterways, drains or sewage system.

Methods for cleaning up: Mop up spillage with absorbance paper/cloth soaked in ethanol/acetone.



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). Keep out of direct light.

8. Exposure controls and personal protection

Respiratory protection:	None required under normal conditions of use.
Hand protection:	Rubber, latex or PVC gloves.
Eye protection:	Safety glasses, goggles or face shield.
General safety and hygiene measures:	Follow good housekeeping practices and good industrial hygiene in handling this material. Remove any naked lights or strong heat sources.

9. Physical and chemical properties

Appearance:	Clear, pale yellow liquid - Conseal-Clear . Tooth coloured semi-translucent liquid - Conseal-Light Grey White liquid - Conseal F (White) .
Odour:	Ester like.
Boiling point:	Gel before boiling.
Melting point:	Not established.
Specific gravity:	1.1 - 1.2
Flash point:	Not established.
Flammable:	Not established.
Autoflammability:	Do not self ignite at room temperature.
Explosive properties:	Do not present an explosion hazard.
Oxidizing properties:	Not established.
Vapour pressure (@ 20°C):	Not established.
Relative density:	Not established.
Solubility:	Insoluble in water.

10. Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to avoid:	Avoid heat, ignition sources, aging, contamination and intense visible light.



10. Stability and Reactivity (Cont'd)

Materials to avoid: Free radical formers, e.g. peroxides, reducing substances and / or heavy metals ions.

Hazardous decomposition products: None under normal conditions; oxides of carbon when burned.

Hazardous reactivity (polymerization): Heat and intense light can cause polymerization.

11. Toxicological information

Acute toxicity: Irritating to skin, eye and mucous membrane.

Sensitization: No sensitizing effect known. In isolated cases contact allergies have been reported.

12. Ecological information

Self assessment: Slightly hazardous for water. Do not allow large quantities to reach sewage system and waterways.

13. Disposal considerations

Dispose of in accordance with local official regulations.

14. Transport information

Conseal-Clear, Conseal-Light Grey and Conseal F (White) are not classified as Dangerous Goods for air, sea, rail and road transport.

15. Regulatory information

These products are regulated by

TGA
Medical Devices Directive 93/42/EEC
FDA
National regulations

16. Other information

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

Prepared by: SDI Limited
3-13 Brunsdon Street, Bayswater
Victoria, 3153, Australia

Phone Number:
+61 3 8727 7111

Department issuing MSDS: Research and Development
Contact: Operations Director



1. Substance / Preparation and Company name

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

Recommended use: For etching of tooth surfaces by dental professionals.

Manufacturer / Supplier

SDI Limited
3-13 Brunsdon Street, Bayswater
Victoria, 3153, Australia

Telephone:

+61 3 8727 7111 (Business hours)

Southern Dental Industries Ltd
Block 8, St Johns Court
Swords Road
Santry, Dublin 9, Ireland

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Brasil

Telephone:

+55 11 3092 7100 (Business Hours)

Emergency contact number: +61 3 8727 7111

2. Composition / Information on ingredients

<u>Composition:</u>	<u>CAS No.</u>	<u>Wt. %</u>
Phosphoric acid	7664-38-2	37.0
Balance ingredient (non-hazardous)		63.0

3. Hazard Identification

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

Risk phrases – **34/41:** Causes burns to skin and eyes.

Safety phrases – **1/2:** Keep locked up and out of reach of children.
24/25: Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
28 After contact with skin, wash immediately with plenty of water.

4. First Aid Measures

Eye (contact): Flush opened eye with running water for at least 15 minutes. Seek medical attention.

Skin (contact): Remove contaminated clothing. Wash skin with plenty of water. In case of allergic reaction, seek medical attention.

Ingestion: Do not induce vomiting, drink water / milk. Seek medical attention.



5. Fire Fighting Measures

Suitable extinguishing media: Water.

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.

6. Accidental Release Measures

Personal precautions: Do not get into eyes, on skin or clothing.

Environmental precautions: Prevent large spillage from entering waterways, drains or sewage system.

Methods for cleaning up: Wear hand protection and mop up spillage with absorbent paper. Dispose according to local regulation. Clean area with a wet towel.

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).

8. Exposure controls and personal protection

Respiratory protection: Not required under normal conditions of use.

Hand protection: Rubber, latex or PVC gloves.

Eye protection: Safety glasses, goggles or face shield.

General safety and 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.



9. Physical and chemical properties (Cont'd)

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.

10. Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to avoid:	Avoid excessive heat.
Materials to avoid:	Metals and strong bases.
Hazardous decomposition products:	None under normal conditions. Corrosive fumes when heated.
Hazardous reactivity (polymerization):	Will not occur.

11. Toxicological information

CORROSIVE

Acute

Eye (contact):	Causes burns.
Skin (contact):	Causes burns.
Inhalation:	None expected under normal conditions of use.
Ingestion:	Causes burns to soft tissues of the digestive tract.

12. Ecological information

Self Assessment:	Slightly hazardous for water. Do not allow large quantities to reach sewage system and waterways.
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13. Disposal considerations

Dispose of 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.

Prepared by:	SDI Limited	Phone Number:
	3-13 Brunsdon Street, Bayswater	+61 3 8727 7111
	Victoria, 3153, Australia	

Department issuing MSDS:	Research and Development
Contact	Operations Director



Conseal-Clear, Conseal-Light Grey, Conseal F (White)

SDI Limited

Version No: 6.1.1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 28/01/2016

Print Date: 23/03/2016

Initial Date: Not Available

L.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Conseal-Clear, Conseal-Light Grey, Conseal F (White)
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	For the protection of pits and fissures.
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	SDI Limited	SDI Brazil Industria E Comercio Ltda	SDI Germany GmbH
Address	3-15 Brunson Street VIC Bayswater 3153 Australia	Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil	Hansestrasse 85 Cologne D-51149 Germany
Telephone	+61 3 8727 7111 (Business Hours)	+55 11 3092 7100	+49 0 2203 9255 0
Fax	+61 3 8727 7222	+55 11 3092 7101	+49 0 2203 9255 200
Website	www.sdi.com.au	www.sdi.com.au	www.sdi.com.au
Email	info@sdi.com.au	brasil@sdi.com.au	germany@sdi.com.au

Registered company name	SDI (North America) Inc.
Address	1279 Hamilton Parkway IL Itasca 60143 United States
Telephone	+1 630 361 9200 (Business hours)
Fax	Not Available
Website	Not Available
Email	USA.Canada@sdi.com.au

Emergency phone number

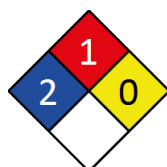
Association / Organisation	SDI Limited	Not Available	Not Available
Emergency telephone numbers	+61 3 8727 7111	Not Available	Not Available
Other emergency telephone numbers	ray.cahill@sdi.com.au	Not Available	Not Available

Association / Organisation	Not Available
Emergency telephone numbers	+61 3 8727 7111
Other emergency telephone numbers	Not Available

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification	Skin Sensitizer Category 1
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Label elements

Conseal-Clear, Conseal-Light Grey, Conseal F (White)

GHS label elements



SIGNAL WORD

WARNING

Hazard statement(s)

H317	May cause an allergic skin reaction.
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Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P363	Wash contaminated clothing before reuse.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.
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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
		Conseal-Clear contains
Not Available	100	acrylic monomer
		Conseal-Light Grey contains
Not Available	80	acrylic monomer
Not Available	20	Ingredients determined not to be hazardous
		Conseal F (White) contains
Not Available	93	acrylic monomer
Not Available	7	Ingredients determined not to be hazardous

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: - Wash out immediately with fresh running water. - 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. - Seek medical attention without delay; if pain persists or recurs seek medical attention. - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: - Immediately remove all contaminated clothing, including footwear. - Flush skin and hair with running water (and soap if available). - Seek medical attention in event of irritation.
Inhalation	- If fumes or combustion products are inhaled remove from contaminated area. - Seek medical attention.
Ingestion	Seek medical attention.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Conseal-Clear, Conseal-Light Grey, Conseal F (White)

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

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

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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Special protective equipment and precautions for fire-fighters

Fire Fighting	▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves in the event of a fire. ▶ Prevent, by any means available, spillage from entering drains or water courses. ▶ Use fire fighting procedures suitable for surrounding area. ▶ DO NOT approach containers suspected to be hot. ▶ Cool fire exposed containers with water spray from a protected location. ▶ If safe to do so, remove containers from path of fire. ▶ Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	▶ Combustible. ▶ Slight fire hazard when exposed to heat or flame. ▶ Heating may cause expansion or decomposition leading to violent rupture of containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO). ▶ May emit acid smoke. ▶ Mists containing combustible materials may be explosive. May emit corrosive fumes. Decomposes on heating and produces; carbon dioxide (CO₂)

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	▶ Clean up all spills immediately. ▶ Avoid breathing vapours and contact with skin and eyes. ▶ Control personal contact with the substance, by using protective equipment. ▶ Contain and absorb spill with sand, earth, inert material or vermiculite. ▶ Wipe up. ▶ Place in a suitable, labelled container for waste disposal.
Major Spills	Moderate hazard. ▶ Clear area of personnel and move upwind. ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves. ▶ Prevent, by any means available, spillage from entering drains or water course. ▶ Stop leak if safe to do so. ▶ Contain spill with sand, earth or vermiculite. ▶ Collect recoverable product into labelled containers for recycling. ▶ Neutralise/decontaminate residue (see Section 13 for specific agent). ▶ Collect solid residues and seal in labelled drums for disposal. ▶ Wash area and prevent runoff into drains. ▶ After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. ▶ If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	▶ Avoid all personal contact, including inhalation. ▶ Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. ▶ Avoid contact with moisture. ▶ Avoid contact with incompatible materials. ▶ When handling, DO NOT eat, drink or smoke. ▶ Keep containers securely sealed when not in use. ▶ Avoid physical damage to containers. ▶ Always wash hands with soap and water after handling. ▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use. ▶ Use good occupational work practice. ▶ Observe manufacturer's storage and handling recommendations contained within this SDS. ▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	Do not store in direct sunlight. Store between 10 and 25 deg. C.

Conditions for safe storage, including any incompatibilities

Suitable container	▶ DO NOT repack. Use containers supplied by manufacturer only. ▶ Check that containers are clearly labelled and free from leaks
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Conseal-Clear, Conseal-Light Grey, Conseal F (White)

Storage incompatibility

- Avoid storage with reducing agents.
- Store away from materials likely to promote polymerization, e.g. peroxides.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Conseal-Clear, Conseal-Light Grey, Conseal F (White)	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
acrylic monomer	Not Available	Not Available
acrylic monomer	Not Available	Not Available
Ingredients determined not to be hazardous	Not Available	Not Available
acrylic monomer	Not Available	Not Available
Ingredients determined not to be hazardous	Not Available	Not Available

MATERIAL DATA

Exposure controls

Appropriate engineering controls	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: Process controls which involve changing the way a job activity or process is done to reduce the risk. 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. Employers may need to use multiple types of controls to prevent employee overexposure.										
	General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed 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.										
	<table><tr><td>Type of Contaminant:</td><td>Air Speed:</td></tr><tr><td>solvent, vapours, degreasing etc., evaporating from tank (in still air)</td><td>0.25-0.5 m/s (50-100 f/min)</td></tr><tr><td>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)</td><td>0.5-1 m/s (100-200 f/min.)</td></tr><tr><td>direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)</td><td>1-2.5 m/s (200-500 f/min)</td></tr><tr><td>grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).</td><td>2.5-10 m/s (500-2000 f/min.)</td></tr></table>	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.)
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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.)										
Within each range the appropriate value depends on:											
<table><tr><td>Lower end of the range</td><td>Upper end of the range</td></tr><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></table>	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	
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1: Room air currents minimal or favourable to capture	1: Disturbing room air currents										
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3: Intermittent, low production.	3: High production, heavy use										
4: Large hood or large air mass in motion	4: Small hood - local control only										
	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.										
Personal protection											
Eye and face protection	▶ Safety glasses with side shields. ▶ Chemical goggles. ▶ 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										

Conseal-Clear, Conseal-Light Grey, Conseal F (White)

	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], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	- Wear chemical protective gloves, e.g. PVC. - Wear safety footwear or safety gumboots, e.g. Rubber - Rubber Gloves
Body protection	See Other protection below
Other protection	- Overalls. - P.V.C. apron. - Barrier cream. - Skin cleansing cream. - Eye wash unit.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear, pale yellow liquid (Conseal-Clear); Tooth coloured semi-translucent liquid (Conseal-Light Grey); White liquid (Conseal F) with ester-like odour, insoluble in water.		
Physical state	Liquid	Relative density (Water = 1)	1.1-1.2
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	gel before boiling	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	- Unstable in the presence of incompatible materials. - Product is considered stable. - Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may

Conseal-Clear, Conseal-Light Grey, Conseal F (White)

	progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.
Eye	Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
Chronic	Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.

Conseal-Clear, Conseal-Light Grey, Conseal F (White)	TOXICITY	IRRITATION
	Not Available	Not Available
Legend:	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	

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 available but does not fill the criteria for classification
 ✓ – Data required to make classification available
 ☐ – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	▶ DO NOT allow wash water from cleaning or process equipment to enter drains. ▶ It may be necessary to collect all wash water for treatment before disposal. ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. ▶ Where in doubt contact the responsible authority.
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SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
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Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Conseal-Clear, Conseal-Light Grey, Conseal F (White)

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	YES
Delayed (chronic) health hazard	NO
Fire hazard	NO
Pressure hazard	NO
Reactivity hazard	NO

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	Y
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	<i>Y = All ingredients are on the inventory</i> <i>N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i>

SECTION 16 OTHER INFORMATION

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
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
BEI: Biological Exposure Index

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:

Prepared by: SDI Limited
3-15 Brunsdon Street, Bayswater Victoria, 3153, Australia

Phone Number: +61 3 8727 7111

Conseal-Clear, Conseal-Light Grey, Conseal F (White)

Date of preparation/revision: 23rd September 2015

Department issuing SDS: Research and Development

Contact: Technical Director



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

SDI Limited
3-13 Brunsdon Street, Bayswater
Victoria, 3153, Australia

SDI (North America) Inc.
1279 Hamilton Parkway
Itasca, IL 60143, USA

Telephone:

+61 3 8727 7111 (Business hours)

Telephone:

+1 630 361 9200 (Business hours)

Southern Dental Industries Ltd
Block 8, St Johns Court
Swords Road
Santry, Dublin 9, Ireland

SDI Brasil Indústria e Comércio Ltda
Rua Dr. Virgílio de Carvalho Pinto, 612
Pinheiros, São Paulo, 05415-020
Brasil

Telephone:

+353 1 886 9577 (Business Hours)

Telephone:

+ 55 11 3092 7100 (Business Hours)

Emergency contact number:

+61 3 8727 7111

Email: ray.cahill@sdi.com.au (Technical Director, SDI Limited)

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>
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Phosphoric acid	7664-38-2	231-633-2	37.0	Skin corrosion
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Concentration limit, M factor Phosphoric acid: Skin Corr 1B: C $\geq$ 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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Date of preparation/revision: 2nd February 2015.

Department issuing SDS: Research and Development

Contact R&D Director
