

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

076316129

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

076316103 076316145

**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).**

076316111 076316137

# SAFETY DATA SHEET

**Product name:** CALASEPT

SDS Drawn up: 1998-04-01 SDS Revised: 2011-12-30

## 1. Identification of the substance / preparation and of the company

**Trade name:** CALASEPT  
**Chemical name:** Calcium hydroxide with radiopacity  
**Field of application:** Temporary root filling, isolation  
**Supplier:** Nordiska Dental AB  
Postal address: Box 1082 Telephone no: +46 431 443 360  
Postcode and town: S-262 21 Ängelholm Fax no: +46 431 443 399  
Country: Sweden E-mail: mail@nordiskadental.se  
**Emergency telephone:** +46 431 443 360 Contact: Ewa-Lotte Pedersen

## 2. Hazards identification

**Classification:** Hazardous in contact with eye or skin.

**Adverse physicochemical effects:** The product has a pH-value of 12,4

**Adverse human health effects:** May causes severe burns and eye damage (category 1). May cause skin irritation (category 2).

**Adverse environmental effects:** Water hazard class 1 (self-assessment); slightly hazardous for water.

**Classification of the mixture** In accordance with regulation (EC) No 1272/2008:

Serious eye injury (category 1).

According to European Directive 67/548/EEC as amended:

Skin irritation, may cause serious burn damage in eyes.

**Label information:**



**Pictograms:**

**Signal words:** Danger

**Hazard identification:** H318; Causes serious eye damage. H315; Causes skin irritation.

**Precautionary measures:** P280; Wear protective gloves / eye protection / face protection.

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

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

P337 + P313; If eye irritation persists. Get medical attention.

## 3. Composition / information on ingredients

Component	CAS-no	Einecs-no	Content (%)	Classification
Calcium hydroxide	1305-62-0	215-137-3	41-46	Eye Dam. 1, Skin irrit. 2 H318, H315*
Barium sulphate	7727-43-7	231-784-4	5-10	-
Ringer solution	-	-	45-54	-

\*The full wordings of the phrases are listed in section 16

## 4. First aid measures

**Inhalation:-**

**Skin contact:** Wash off with plenty of water.

**Eye contact:** Keep the eyelids wide apart and flush with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** Immediately drink ca. 0,5 L of water, or preferably milk. Get medical attention as soon as possible.

**Further information:** Clothing soiled by the product shall be immediately removed. Never give any food and/or drink to an unconscious person. Please show this safety data sheet to the doctor on duty. Get medical attention in case of uncertainty.

## 5. Fire-fighting measures

**Suitable extinguishing media:** The product is not flammable. Customize the fire fighting measures to the surrounding.

**Extinguishing media which must not be used:-**

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** Metal oxide fume can be released.

**Special protective equipment:** Use breathing apparatus that is independent of the ambient air.

**Further information:-**

## 6. Accidental release measures

**Personal precautions:** Eye bath should be available in the premises. Avoid skin contact. Eye protectors should be used.

**Environmental precautions:** Do not allow the material to be released to the environment without proper governmental permit.

**Methods for cleaning up:** Use neutralising agents.

## 7. Handling and storage

**Handling:** The product should be handled with care and in accordance with strict hygiene practises.

**Storage:** Do not store together with strong acids, anhydrides and nitro compounds. Store at room temperature, do not refrigerate. Avoid exposure to direct sunlight.

## 8. Exposure controls / personal protection

**Exposure limit values:** Calcium hydroxide: OSHA Permissible Exposure Limit (PEL): Time Weighted Average (TWA) 15 mg/m<sup>3</sup> (total) 5 mg/m<sup>3</sup> (resp). NIOSH Recommended Exposure Limit (REL): TWA 5 mg/m<sup>3</sup>. Barium sulphate: OSHA PEL: TWA 15 mg/m<sup>3</sup> (total) TWA 5 mg/m<sup>3</sup> (resp). NIOSH REL: TWA 10 mg/m<sup>3</sup> (total) TWA 5 mg/m<sup>3</sup> (resp).

**Exposure controls:** All work should be carried out in accordance with strict hygiene practises. All work should take place in suitable premises, in accordance with the existing legislation and regulations. See also heading 7. Handling and storage.

**Occupational exposure controls:**

- **respiratory protection:-**
- **hand protection:** Protective gloves should be used in order to avoid exposure.
- **eye protection:** Eye protectors should be used in order to avoid exposure.
- **skin protection:-**

**Environmental exposure controls:-**

## 9. Physical and chemical properties

**General information:**

- Appearance: White paste.
- Odour: No odour.

**Important health, safety and environmental information:**

- |   |          |                                   |            |
|---|----------|-----------------------------------|------------|
| · pH:                                     | 12,4     | · Boiling point/interval:         | -          |
| · Flash point:                            | -        | · Flammability (solid, gas):      | -          |
| · Explosive properties:                   | -        | · Oxidising properties:           | -          |
| · Vapour pressure:                        | -        | · Density:                        | -          |
| · Water solubility:                       | Mixable. | · Solubility in organic solvents: | Insoluble. |
| · Vapour density:                         | -        | · Evaporation rate:               | -          |
| · Partition coefficient: n-octanol/water: | -        | · Viscosity:                      | -          |

## 10. Stability and reactivity

**Conditions to avoid:-**

**Materials to avoid:** Strong acids, anhydrides and nitro compounds.

**Hazardous decomposition products:-**

## 11. Toxicological information

### Dangerous-to-health effects and symptoms related to:

- **inhalation:-**
  - **ingestion:** The product is strongly alkaline (pH-value 12,4). May be harmful if swallowed.
  - **skin contact:** The product is strongly alkaline (pH-value 12,4). Can cause skin irritation. May be harmful if absorbed through skin.
  - **eye contact:** The product is strongly alkaline (pH-value 12,4). Causes serious eye irritation.
- LD/LC value that are relevant for classification (for calcium hydroxide):
- Oral, LD50: 7300 mg/kg (moues), 7340 mg/kg (rat).
  - Irritation of eyes, severe: 10 mg (rabbit).

## 12. Ecological information

**General notes:** Water hazard class 1 (self-assessment); slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

**Persistence and degradability:** Not degradable.

**Bioaccumulative potential:-**

## 13. Disposal considerations

**Product:** Should be disposed of in accordance with local regulations and national legislation.

**Contaminated packaging:** Should be disposed of in accordance with local regulations and national legislation.

## 14. Transport information

### ADR/RID (Land transport):

Not classified as dangerous goods

### ICAO/IATA (Air transport):

Not classified as dangerous goods

### IMO/IMDG (Maritime transport):

Not classified as dangerous goods

## 15. Regulatory information

### Health, safety and environmental information shown on the label:

According to GHS (CLP):

Pictograms:



**Signal word:** Danger

**Hazard identifications:** H318 Causes serious eye damage. H315; Causes skin irritation.

**Precautions measures:** P280, Wear protective gloves / eye protection / face protection.

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

P338; Remove contact lenses, if present and easy to do. Continue rinsing. + P337; If eye irritation persists +

P313 Get medical attention.

According to European Directive 67/548/EEC as amended:

Hazard symbol:



**Categories of danger:** C, Corrosive

**Risk phrases:** R41 Risk of serious damage to eyes.

**Safety phrases:** S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Further information:** Safety Data Sheet according to REACH EC 1907/2006. Classification, labelling and packing of substances and mixtures (CLP) EC 1272/2008.

This product meets the demands of MDD 93/42/EEC. The product is CE-marked.

#### 16. Other information

**Full wording of the phrases referred to in section 3:** Eye Dam 1 = eye damage (Category 1), Skin Irrit 2 = skin irritation (Category 2).

H318 Causes serious eye damage. H315 Skin irritation.

The information in this safety data sheet is based upon our present knowledge. The information is presented with the intention of describing the safest way of handling the product. The safety data sheet is therefore not to be regarded as a complete chemical description of the product. Consequently, the user is responsible for making sure that the product is meant to be used in the actual field of application and that it serves the purpose intended.



**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

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

**Telephone:**

+61 3 8727 7111 (Business hours)

**Telephone:**

630 238 8300 (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

**2. Composition / Information on ingredients**

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



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### 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 advise 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.

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### 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.

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### 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.

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### 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.

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## 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 - <b>Conseal-Clear</b> . Tooth coloured semi-translucent liquid - <b>Conseal-Light Grey</b> White liquid - <b>Conseal F (White)</b> .
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.





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## 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.

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## 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.

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## 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.

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## 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.

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## 15. Regulatory information

These products are regulated by

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

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## 16. Other information

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

**Prepared by:** SDI Limited  
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Victoria, 3153, Australia

**Phone Number:**  
+61 3 8727 7111

**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.U.S.A.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	
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SIGNAL WORD	<b>WARNING</b>
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**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**

<b>Eye Contact</b>	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with fresh 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>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</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 contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Seek medical attention.</li> </ul>
<b>Ingestion</b>	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

<b>Fire Incompatibility</b>	None known.
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#### Special protective equipment and precautions for fire-fighters

<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 breathing apparatus plus protective gloves in the event of a fire.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>▶ Use fire fighting procedures suitable for surrounding area.</li> <li>▶ <b>DO NOT</b> approach containers suspected to be hot.</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>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>▶ May emit acrid smoke.</li> <li>▶ Mists containing combustible materials may be explosive.</li> </ul> <p>May emit corrosive fumes. Decomposes on heating and produces; carbon dioxide (CO<sub>2</sub>)</p>

### SECTION 6 ACCIDENTAL RELEASE MEASURES

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

<b>Minor Spills</b>	<ul style="list-style-type: none"> <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>	<p>Moderate hazard.</p> <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 breathing apparatus plus protective gloves.</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 all personal 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>	<p><b>Do not</b> store in direct sunlight. Store between 10 and 25 deg. C.</p>

#### Conditions for safe storage, including any incompatibilities

<b>Suitable container</b>	<ul style="list-style-type: none"> <li>▶ <b>DO NOT repack.</b> Use containers supplied by manufacturer only.</li> <li>▶ Check that containers are clearly labelled and free from leaks</li> </ul>
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Continued...

## 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

<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.</p> <p>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. 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.</p>																			
	<table border="1" style="width: 100%;"> <thead> <tr> <th>Type of Contaminant:</th> <th>Air Speed:</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>Within each range the appropriate value depends on:</p> <table border="1" style="width: 100%;"> <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>	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.)	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
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<b>Personal protection</b>																				
<b>Eye and face protection</b>	<ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</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</li> </ul>																			

Continued...

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

	<ul style="list-style-type: none"> <li>▶ 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]</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>▶ P.V.C. apron.</li> <li>▶ Barrier cream.</li> <li>▶ Skin cleansing cream.</li> <li>▶ Eye wash unit.</li> </ul>
<b>Thermal hazards</b>	Not Available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	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.		
<b>Physical state</b>	Liquid	<b>Relative density (Water = 1)</b>	1.1-1.2
<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>	Not Available	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	gel before boiling	<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 Available	<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 (g/L)</b>	Immiscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	<ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul>
<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>Inhaled</b>	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.
<b>Ingestion</b>	The material has <b>NOT</b> 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.
<b>Skin Contact</b>	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)	<table border="1"> <tr> <td>TOXICITY</td> <td>IRRITATION</td> </tr> <tr> <td>Not Available</td> <td>Not Available</td> </tr> </table>	TOXICITY	IRRITATION	Not Available	Not Available
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	<ul style="list-style-type: none"> <li>▶ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</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> </ul>
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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
<b>Legend:</b>	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

## 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:

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

Date of preparation/revision: 23rd September 2015

Department issuing SDS: Research and Development

Contact: Technical Director