

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed

**Canada**

**Canadian Domestic Substances List (DSL):**

All ingredients are listed

**Canadian NPRI Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed

**Canadian NPRI Ingredient Disclosure list (limit 1%):**

None of the ingredients is listed

**SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:**

**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

Effective date: 02.11.2015

Last updated: 05.14.2015

**WARRANTY:** Clinician's Choice® Dental Products Inc. will replace G5, free of charge, if proven to be defective and when stored according to the manufacturer's specifications. Clinician's Choice Dental Products Inc. does not accept liability for any loss or damage, direct or consequential, arising out of the use of or the inability to use this product. Before using, the user shall determine the suitability of the product(s) for its intended use and the user assumes all risk and liability whatsoever in connection therewith.



**INDICATIONS FOR USE**

G5™ is an outstanding desensitizing agent that excels in preventing sensitivity associated with the placement of crowns, inlays/onlays, composites or amalgam restorations. G5 also can be used to help desensitize exposed root surfaces, but works best if subsequently sealed with a resin sealing agent or dentin adhesive.

**MECHANISM OF ACTION**

G5 reduces sensitivity by killing bacteria and sealing the dentinal tubules. G5 has profound antimicrobial qualities and acts as an excellent disinfectant. Additionally, G5 seals the tubules by coagulating plasma proteins within the tubules, thus forming a series of coagulation plugs in the dentinal tubules. This coagulation phenomenon results in a significant reduction in dentin permeability and fluid flow, which are vital keys to desensitization.

When used with resin-bonded restorations, G5 also acts as a flocculating agent, effectively fostering collagen cross links that result in enhanced collagen bonding. Unlike many one bottle desensitizers, G5 does not adversely affect the bonding of any resin-based restorative materials or cements.

**GENERAL INFORMATION**

G5 contains glutaraldehyde, HEMA, and water. The time-proven formulation of G5 has demonstrated outstanding clinical performance for over 15 years.

**USED WITH CROWNS, INLAYS/ ONLAYS**

G5 is very effective at preventing sensitivity when applied to crown, inlay or onlay preparations on vital teeth prior to cementation. It can be used in conjunction with all cement types with no adverse effects on retention. G5 also can be used at the "prep" appointment to desensitize the tooth during temporization. However, since G5 is essentially a dentin primer, it should be applied to the tooth only after temporary fabrication when using a bisacryl-type temporary material.

**INSTRUCTIONS FOR USE WITH UNBONDED CROWNS, INLAYS or ONLAYS (Glass Ionomer Cements, Resin-Modified Cements, Zinc Phosphate, or Other Non-Bonding Luting Agents)**

1. Clean tooth preparation area.
2. Dry with air (dryness is not critical).
3. Apply G5 to dried tooth using a microbrush or cotton pellet. Avoid soft tissue.
4. Wait 30 seconds, then dry with air.
5. Place restorative material such as amalgam, castings, etc. (Zinc phosphate and glass ionomer cements work well with G5).

**INSTRUCTIONS FOR USE WITH RESIN-BONDED CROWNS, INLAYS or ONLAYS (Conventional Adhesive Resin Cements)**

1. Clean tooth preparation area.
2. Etch with 10-40% phosphoric acid for 15 to 30 seconds.
3. Rinse.
4. Dry with air (dryness is not critical).
5. Apply G5 using a microbrush or cotton pellet. Avoid soft tissue.
6. Wait 30 seconds, then dry or leave moist, per manufacturer's instructions for the bonding agent.
- 7a. Direct Restorations: Apply composite bonding agent and composite per manufacturer's instructions.
- 7b. Indirect Restorations: Apply composite bonding agent and luting resin per manufacturer's instructions.

**ADDITIONAL TECHNIQUE RECOMMENDATIONS USED WITH POSTERIOR RESIN COMPOSITES**

G5 excels at reducing sensitivity associated with posterior composites. It can be effectively used with any one or multi-bottle dentin adhesive that utilizes a classic all-etch approach with a wet bonding technique. G5 is essentially applied after etching but before adhesive primer application as a re-wetting agent in the bonding sequence. G5 does not adversely affect bonds to etched enamel.

**INSTRUCTIONS FOR USE WITH POSTERIOR RESIN COMPOSITES**

1. Clean tooth preparation area.
2. Etch preparation with phosphoric acid per dentin adhesive manufacturer's instructions.
3. Rinse thoroughly.
4. Lightly dry with air or blot with a cotton pellet to remove visible water. Do not desiccate.
5. Re-wet the entire preparation with G5 using a microbrush or cotton pellet. Avoid soft tissue (rinse after application if G5 comes in contact with soft tissue). The dentin should exhibit a glistening appearance. Do not dry.
6. Apply dentin adhesive according to the manufacturer's directions.

**USED WITH AMALGAMS**

G5 can be used to help prevent post-operative sensitivity associated with conventional amalgam restorations (unbonded).

1. Clean tooth preparation.
2. Apply G5 using a microbrush or very small cotton pellet. Avoid soft tissue (rinse after application if G5 comes in contact with soft tissue).
3. Scrub preparation for 30 seconds. Avoid soft tissue (rinse after application if G5 comes in contact with soft tissue).
4. Rinsing of the G5 from the prep after application is optional. Dry prep and proceed with placement of amalgam restoration.

**WARNING!** G5 and other gluteraldehyde-based desensitizers will burn soft tissues. Keep off soft tissues. Avoid contact with eyes, skin, and mucous membranes. If accidental contact occurs, FLUSH IMMEDIATELY WITH WATER. CONSULT PHYSICIAN IMMEDIATELY IF EYE CONTACT OCCURS. Keep away from children.

**STORAGE AND SHELF LIFE:** Expiration date is placed on each G5 bottle. G5 has a three year shelf life when kept below 25°C/77°F.



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## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the supplier


Product name: Desensitizer  
Manufacturer/Supplier Trade name: Desensitizer  
Manufacturer/Supplier Article number: Desensitizer

Recommended uses of the product and restrictions on use:

Manufacturer Details:

Supplier Details:

Emergency telephone number:

 CLINICIAN'S CHOICE Dental Products, Inc.  
167 Central Avenue, London, ON, N6A 1M6  
Canada,

For U.S. Distribution: Brookfield, CT, USA, 06804  
Phone: 1-800-265-3444, (519) 641-3066  
info@clinchianschoice.com

### SECTION 2: Hazards Identification Classification of the substance or mixture:



**Corrosive**  
Serious eye damage, category 1  
Skin corrosion, category 1B



**Irritant**  
Skin sensitization, category 1



**Health hazard**  
Respiratory sensitization, category 1

Serious eye damage/eye irritation - Category 1  
Skin Corrosion/Irritation - Category 1B  
Respiratory sensitization - Category 1  
Skin sensitization - Category 1

**Signal word:** Danger

**Hazard statements:**

Causes severe skin burns and eye damage  
Causes serious eye damage  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction

### Precautionary statements:

If medical advice is needed, have product container or label at hand  
Keep out of reach of children  
Read label before use  
Wash skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Do not breathe dust/fume/gas/mist/vapours/spray  
Contaminated work clothing should not be allowed out of the workplace  
In case of inadequate ventilation wear respiratory protection  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.  
Continue rinsing.  
If exposed or concerned: Get medical advice/attention  
IF experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
Specific treatment (see supplemental first aid instructions on this label)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse  
Store locked up  
Dispose of contents and container as instructed in Section 13

**Other Non-GHS Classification:**

**D2B**

**T**  
WHMIS  
**E**

**3**  
**0**  
**0**

NFPA/HMIS

Health	3
Flammability	0
Physical Hazard	2
Personal Protection	X

NFPA SCALE (0-4)      HMIS RATINGS (0-4)

### SECTION 3: Composition/information on ingredients

<b>Ingredients:</b>		
CAS 7732-18-5	Water	50-74 %
CAS 111-30-8	Glutaraldehyde	1-5 %
CAS 868-77-9	Hydroxyethyl Methacrylate	25-45 %

Percentages are by weight

### SECTION 4: First aid measures

#### Description of first aid measures

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention immediately.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:**

Irritation. Headache. Nausea. Shortness of breath.  
**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: None identified.

### Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

#### Advice for firefighters:

**Protective equipment:** Wear protective eyewear, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus.

**Additional information (precautions):** Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

### SECTION 6: Accidental release measure

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

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

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

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

#### Reference to other sections:

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke or use personal products when handling chemical substances.

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

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

### SECTION 8: Exposure controls/ personal protection



**Control Parameters:** 111-30-8, Glutaraldehyde, ACGIH TLV 0.05 ppm Ceiling (activated and inactivated)  
111-30-8, Glutaraldehyde, OSHA PEL 0.2 ppm Ceiling; 0.8 mg/m<sup>3</sup> Ceiling

**Appropriate engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with selected technique without touching outer surface. Avoid skin contact with gloves. Wear protective clothing.

**Eye protection:** Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection.

**General hygiene measures:** Perform routine housekeeping. Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

### SECTION 9: Physical and chemical properties

**Appearance (physical state, color):** Clear Liquid

**Odor:** Not Determined

**Odor threshold:** Not Determined

**pH-value:** Not Determined

**Melting/Freezing point:** Not Determined

**Boiling point/Boiling range:** Not Determined

**Flash point (closed cup):** Not Determined

**Evaporation rate:** Not Determined

**Flammability (solid, gaseous):** Not flammable

**Explosion limit lower:** Not applicable

**Explosion limit upper:** Not applicable

**Vapor pressure:** Not Determined

**Vapor density:** Not Determined

**Relative density:** Not Determined

**Solubilities:** Soluble

**Partition coefficient (n-octanol/water):**

Not Determined

**Auto/Self-ignition temperature:** Not Determined

**Decomposition temperature:** Not Determined

**Viscosity:** a. Kinematic: Not Determined

b. Dynamic: Not Determined

**Density:** Not Determined

### SECTION 10: Stability and reactivity

**Reactivity:** Nonreactive under normal conditions.

**Chemical stability:** Stable under normal conditions.

**Possible hazardous reactions:** None identified.

**Conditions to avoid:** Incompatible materials. Prolonged extreme heat. Free radical initiators.

**Incompatible materials:** Contact with iron.

**Hazardous decomposition products:**

Not determined.

### SECTION 11: Toxicological information

**Acute Toxicity:**

**Dermal:** 111-30-8

LD50 Rabbit 560 µL/kg (Source: NLM\_CIP)

**Inhalation:** 111-30-8

LC50 Rat 0.1 mg/L 4 h (source: IUCLID)

**Oral:** 111-30-8

LD50 Rat 252 mg/kg (Source: NLM\_CIP)

**Dermal:** 868-77-9

Dermal LD50 Rabbit > 3000 mg/kg (Source: IUCLID)

**Oral:** 868-77-9

LD50 Rat 5050 mg/kg (Source: NLM\_CIP)

**Chronic Toxicity:** No additional information.

#### Corrosion Irritation:

**Ocular:** [Commission of the European Communities. Legislation on Dangerous Substances - Classification and Labelling in the European Communities. Vol. II. London and Trodat Ltd., 1989., p. 404] @\*\*PEER REVIEWED\*\* Irritating to eyes and skin.

**Ocular:** [Lewis, R. J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ, 2004., p. 1864] \*\*PEER REVIEWED\*\* Glutaral - A severe eye and human skin irritant.

**Sensitization:** No additional information.

**Single Target Organ (STOT):**

No additional information.

**Numerical Measures:** No additional information.

**Carcinogenicity:** No additional information.

**Mutagenicity:** No additional information.

**Reproductive Toxicity:** No additional information.

### SECTION 12: Ecological information Ecotoxicity

**111-30-0:** Freshwater algae: 72 Hr EC50

Desmodesmus subspicatus: 0.61 mg/L; 96 Hr

EC50 Desmodesmus subspicatus 0.84 mg/L

868-77-9: Freshwater fish: 96 Hr LC50

Pimephales promelas: 213 -0242 mg/L

[flow-through]; 96 Hr LC50

Pimephales promelas: 227 mg/L

**Persistence and degradability:** Not determined.

**Bioaccumulative potential:** Not determined.

**Mobility in soil:** Not determined.

**Other adverse effects:** None identified.

### SECTION 13: Disposal considerations

#### Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

### SECTION 14: Transport information

**UN-Number:** Not Regulated

**UN proper shipping name:** Not Regulated

**Transport hazard class(es)**

**Packing group:** Not Regulated

**Environmental hazard:**

**Transport in bulk:**

**Special precautions for user:**

### SECTION 15: Regulatory information

**United States (USA)**

**SARA Section 311-312**

**(Specific toxic chemical listings):** Acute

**SARA Section 313**

**(Specific toxic chemical listings):**

111-30-8 Glutaraldehyde

868-77-9 Hydroxyethyl Methacrylate

**RCRA (hazardous waste code):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

1310-58-3 Potassium hydroxide 1000 lbs

123-31-9 Hydroquinone 100 lbs

**Proposition 65 (California):**

**Chemicals known to cause cancer:**

None of the ingredients are listed

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