ΙΔΤΔ UN Number UN2922 UN Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (Glutaraldehvde) Transport Hazard Class(es) Class: 8 Subsidiary Risk: 6.1(PGIII) Label(s): 8+6.1 Packing Group: III Environmental Hazards: No ERG Code: 8P Special Precautions for User: Read safety instructions SDS and emergency procedures before handling. IMDG UN Number UN2922 UN Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S. (GLUTARALDEHYDE) Transport Hazard Class(es) Class: 8 Subsidiary Risk: 6.1(PGIII) Packing Group: III Environmental Hazards Marine Pollutant: No EmS: E-A S-B Special Precautions for User: Read safety instructions SDS and emergency procedures before handling. Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not established 15: Regulatory Information US Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910,1200 TSCA Section 12(b) Export Notification (40 CFR 707. Subpt. D): Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4); Not listed SARA 304 Emergency Release Notification: Not regulated OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053): Not regulated SARA 302 Extremely Hazardous Substance: Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 311/312 Hazardous Chemical: Yes Classified Hazard Categories: Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eve damage or eve irritation Bespiratory or skin sensitization SARA 313 (TRI reporting): Not regulated.

Canada

Canada

China

Furone

Furope

Japan

Korea

Taiwan

Other Federal Regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated. Safe Drinking Water Act (SDWA): Not regulated. US State Regulations US Massachusetts RTK - Substance List: Glutaraldehyde (CAS 111-30-8) US. New Jersey Worker and Community Right-to-Know Act: Glutaraldehvde (CAS 111-30-8) US, Pennsylvania Worker and Community Right-to-Know Law: Glutaraldehyde (CAS 111-30-8) US. Rhode Island RTK: Glutaraldehvde (CAS 111-30-8) California Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov. US. California, Candidate Chemicals List, Safer Consumer Products Regulations (Cal. Code Regs. tit. 22, 69502.3.subd. (a)): Glutaraldehyde (CAS 111-30-8) International Inventories Country(s) On inventory or Region Inventory Name (ves/no)* Australian Inventory of Australia Chemical Substances (AICS) Yes Domestic Substances List (DSL) Yes Non-Domestic Substances List (NDSL) No Inventory of Existing Chemical Substances in China (IECSC) Yes European Inventory of Existing Commercial Chemical Substances (EINECS) Yes **European List of Notified Chemical** Substances (ELINCS) No Inventory of Existing and New Chemical Substances (ENCS) Yes Existing Chemicals List (ECL) Yes Yes New Zealand New Zealand Inventory Philinnines Philippine Inventory of Chemicals and Chemical Substances(PICCS) Yes Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Vac *A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or

exempt from listing on the inventory administered by the governing country(s).

and liability whatsoever in connection therewith 0

16: Other Information, Including Date

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

of Preparation or Last Revision

Issue Date: 21-February-2018

Revision Date:

NFPA Ratings:

Version #: 01



Desensitizer

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 lonomer Cements, Resin-Modified Cements, Zinc Phosphate, or Other Non-Bonding Luting Agents) 1. Clean tooth preparation area. Dry with air (dryness is not critical). Apply G5 to dried tooth using a microbrush or cotton. pellet. Avoid soft tissue. 4. Wait 30 seconds, then dry with air. Place restorative material such as amalgam, castings. etc. (Zinc phosphate and glass ionomer cements work

INSTRUCTIONS FOR USE WITH

Etch with 10-40% phosphoric acid for 15 to

5. Apply G5 using a microbrush or cotton pellet.

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.

G5 excels at reducing sensitivity associated with posterior

multi-bottle dentin adhesive that utilizes a classic all-etch

applied after etching but before adhesive primer application

as a re-wetting agent in the bonding sequence. G5 does not

approach with a wet bonding technique. G5 is essentially

composites. It can be effectively used with any one or

RESIN-BONDED CROWNS, INLAYS

or ONLAYS (Conventional Adhesive

well with G5).

Resin Cements)

Avoid soft tissue

30 seconds.

3 Rinse

Clean tooth preparation area.

Dry with air (dryness is not critical)

ADDITIONAL TECHNIQUE

adversely affect bonds to etched enamel.

USED WITH POSTERIOR RESIN

RECOMMENDATIONS

COMPOSITES

POSTERIOR RESIN COMPOSITES Clean tooth preparation area. 2. Etch preparation with phosphoric acid per dentin adhesive manufacturer's instructions. Binse 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

INSTRUCTIONS FOR USE WITH

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

- 1. Clean tooth preparation.
- 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 gluteraldhyde-based desensitizers will burn soft tissues. Keep off soft tissues. Avoid contact with eves, skin, and mucous membranes. If accidental contact occurs, FLUSH IMMEDIATLY WITH WATER, CONSULT PHYSICIAN IMMEDIATLY 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.



All-Purpose Desensitizer

1.800.265.3444 www.clinicianschoice.com

SAFETY DATA SHEET

1: Identification Product Identifier: G5 All-Purpose Desensitizer Other Means of Identification Recommended Use: Desensitizer. Recommended Restrictions: None known Manufacturer/Importer/Supplier/Distributor Information Supplier Company Name: Manufactured for: Clinician's Choice Dental Products, Inc 167 Central Avenue, London, ON, Canada, N6A 1M6 For U.S. Distribution: Brookfield, CT, USA, 06804 Telephone: 1-800-265-3444 / (519) 641-3066 Contact: Customer Service E-mail: info@clinicianschoice.com Website: www.clinicianschoice.com Emergency telephone number 1-800-265-3444 / (519) 641-3066 2: Hazard(s) Identification Physical Hazards: Not classified Health Hazards: Acute Toxicity, Oral Category 4 Acute Toxicity, Inhalation Category 3 Skin Corrosion/Irritation Category 1B Serious Eye Damage/Eye Irritation Category 1 Sensitization, Respiratory Category ' Sensitization, Skin Category 1A Environmental Hazards: Hazardous to the aquatic environment, acute hazard Category 2

Hazardous to the aquatic environment, long-term hazard Category 3 OSHA Defined Hazards: Not classified

Label Elements:



Signal Word: Danger Hazard Statement: Harmful if swallowed. Toxic if inhaled. Causes severe skin burns and eve damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Precautionary Statement: Prevention:

Do not breathe mist or vapor. Wash thoroughly after handling Do not eat. drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eve protection/ face protection. In case of inadequate ventilation wear respiratory protection. Avoid release to the environment. Response: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse. If swallowed: Rinse mouth, Do NOT induce vomiting, If in eves: Binse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a noison center/doctor Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard(s) Not Otherwise Classified (HNOC) Corrosive to the respiratory tract. Supplemental Information: None. 3: Composition/Information on Ingredients Mixtures CAS number Chemical name 7732-18-5 50 - 70 Glutaraldehvde 111-30-8 1 - 10Composition Comments The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable

4: First-aid Measures

Water

limits

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

Skin Contact: Remove contaminated clothing immediately and wash skin with soan and water. Call a physician or poison control center immediately. Chemical hurns must be treated by a physician. Wash contaminated clothing before reuse.

Eve Contact: Immediately flush eyes with plenty of water for at least 15 minutes, Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Indestion Call a physician or poison control center immediately. Binse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Most Important Symptoms/Effects. Acute and Delaved: Burning pain and severe corrosive skin damage. Causes serious eve damage. Symptoms may include stinging. tearing, redness, swelling, and blurred vision. Permanent tract hums Treatment Needed Provide general supportive measures and treat General Information: contaminated clothing before reuse. 5: Fire-Fighting Measures Dry chemical powder, Carbon dioxide (CO2). fire, gases hazardous to health may be formed.

eve damage including blindness could result. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash, Causes digestive tract burns, Causes respiratory Indication of Immediate Medical Attention and Special symptomatically, Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue the around. flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash Suitable Extinguishing Media: Water fog, Foam, Unsuitable Extinguishing Media: Do not use water iet as an extinguisher, as this will spread the fire. Specific Hazards Arising from The Chemical: During Special Protective Equipment and Precautions for Fire-Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire Fire-Fighting Equipment/Instructions: Move containers from fire area if you can do so without risk. Specific Methods: Use standard firefighting procedures and Components consider the hazards of other involved materials. General Fire Hazards: This material will not burn until the water has evaporated. Residue can burn. Components 6: Accidental Release Measures Personal Precautions, Protective Equipment and Emergency Procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective

equipment and clothing during clean-up. Do not breathe vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Methods and Materials for Containment and Cleaning-Up: Prevent product from entering drains Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth. fleece). Clean surface thoroughly to remove residual contamination Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Environmental Precautions: Avoid release to the environment Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto 7: Handling and Storage Precautions for Safe Handling: Do not breathe mist or vapor. Do not get in eyes, on skin or on clothing. Do not taste or swallow, Avoid prolonged exposure. Persons susceptible to allergic reactions should not handle this product. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices Conditions for Safe Storage, Including any Incompatibilities: Keep away from heat. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). 8: Exposure Controls/Personal Protection Occupational Exposure Limits US. ACGIH Threshold Limit Values Value Glutaraldehvde (CAS 111-30-8) Ceilina 0.05 nnm US. NIOSH: Pocket Guide to Chemical Hazards Type Value Glutaraldehvde (CAS 111-30-8) Ceilina 0.8 ma/m3 0.2 ppm Biological Limit Values: No biological exposure limits noted for the ingredient(s)

Appropriate Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established maintain airborne levels to an acceptable level. General ventilation normally adequate. Eve wash facilities and emergency shower must be available when handling this product Individual Protection Measures, such as Personal Protective Equipment Eve/Face Protection: Wear safety glasses with side shields (or googles) and a face shield. Wear a full-face respirator, if needed. Skin Protection/Hand Protection: Wear appropriate chemical resistant gloves. Nitrile or butyl rubber gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier. Skin Protection/Other: Wear appropriate chemical resistar clothing. Use of an impervious apron is recommended. Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. Thermal Hazards: Wear appropriate thermal protective clothing, when necessary, General Hygiene Considerations: Keep away from food and drink. Always observe good personal hygiene measures. such as washing after handling the material and before eating, drinking, and/or smoking, Routinely wash work clothing and protective equipment to remove contaminants Contaminated work clothing should not be allowed out of the workplace 9: Physical and Chemical Properties Appearance Physical State: Liquid Form: Liquid. Color: Not available Odor: Not available. Odor Threshold: Not available pH: Not available Melting Point/Freezing Point: Not available Initial Boiling Point and Boiling Bange. Not available Flash Point: Does not flash. Evaporation Bate: Not available Flammability (solid, gas): Not applicable

Upper/Lower Flammability or Explosive Limits Explosive Limit - Lower (%): Not available. Explosive Limit - Upper (%): Not available. Vapor Pressure: Not available. Vapor Density: Not available. **Belative Density:** Not available Solubility(ies) Solubility (Water): Not available Partition Coefficient (n-octanol/water): Not available Auto-ignition Temperature: Not available. Decomposition Temperature: Not available. Viscosity: > 20.5 mm²/s Viscosity Temperature: 104 °F (40 °C) Other Information Explosive Properties: Not explosive Oxidizing Properties: Not oxidizing. 10: Stability and Reactivity Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport Chemical Stability: Material is stable under normal conditions. Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use Conditions to Avoid: Contact with incompatible materials. Excessive heat. Incompatible Materials: Strong oxidizing agents, Free radical initiators, Peroxides, Steel, Hazardous Decomposition Products: Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. 11: Toxicological Information Information on Likely Routes of Exposure Inhalation: Toxic if inhaled. May cause alleroy or asthma symptoms or breathing difficulties if inhaled. Causes respiratory tract hurns Skin Contact: Causes severe skin burns. May cause an allergic skin reaction Eve Contact: Causes serious eve damage. Ingestion: Harmful if swallowed, Causes digestive tract hurns Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Burning pain and severe corrosive skin damage. Causes serious eve damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eve damage including blindness could result. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis, Bash, Causes digestive tract burns. Causes respiratory tract burns.

Information on Toxicological Effects Acute Toxicity: Toxic if inhaled, Harmful if swallowed. Components Species Test Results Glutaraldehvde (CAS 111-30-8) Acute Dermal LD50 Rahhit > 2000 ma/ka Inhalation Vapor Disposal Instructions: Collect and reclaim or dispose LC50 Rat 0.96 ma/l. 4 Hours Aerosol LC50 Rat 0.28 mg/l, 4 Hours Oral LD50 Rat 154 ma/ka Skin Corrosion/Irritation: Causes severe skin hurns Serious Eve Damage/Eve Irritation: Causes serious eve damage. Respiratory or Skin Sensitization ACGIH Sensitization GLUTABAL DEHYDE ACTIVATED AND INACTIVATED Dermal sensitization (CAS 111-30-8) Respiratory sensitization Respiratory Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Sensitization: May cause an allergic skin reaction. Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity: Not classifiable as to carcinogenicity to humans. DOT IARC Monographs, Overall Evaluation of Carcinogenicity: Not listed. NTP Report on Carcinogens: Not listed. **OSHA Specifically Regulated Substances** (29 CFR 1910.1001-1053): Not regulated. Class: 8 Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects Specific Target Organ Toxicity - Single Exposure: Not classified Specific Target Organ Toxicity - Repeated Exposure: Not classified Aspiration Hazard: Not an aspiration hazard. Chronic Effects: Prolonged inhalation may be harmful Further Information: Symptoms may be delayed. 12: Ecological Information Ecotoxicity: Toxic to aquatic life. Harmful to aquatic life Packaging Bulk: 241 with long lasting effects.

Persistence and Degradability: No data is available on the degradability of this product. **Bioaccumulative Potential** Mobility in Soil: No data available for this product Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. 13: Disposal Considerations

in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/ container in accordance with local/regional/national/ international regulations Local Disposal Regulations: Dispose in accordance with all applicable regulations Hazardous Waste Code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Waste from Residues / Unused Products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Contaminated Packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. 14: Transport Information UN Number: UN2922 UN Proper Shipping Name: Corrosive liquids, toxic, n.o.s. (Glutaraldehyde) Transport Hazard Class(es)

Subsidiary Bisk: 6 1(PGIII) Label(s): 8+6.1 Packing Group: III Environmental hazards Marine Pollutant: No Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling. Special Provisions: IB3, T7, TP1, TP28 Packaging Exceptions: 154 Packaging Non Bulk: 203