Safety Data Sheet (SDS)

Prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200, Hazardous Products Regulations (HPR) and WHMIS 2015, Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP), and GHS Rev. 11

Rodin SensiGuard

Section 1. Product and Company Identification

Product Identifier
Dental Product: Primer and Desensitizer
Trade Name
Rodin SensiGuard
Recommended Use
For the treatment of hypersensitive dentine during bonding procedures.
Restrictions on Use
For use by trained dental professionals. Not intended for consumer use.
Manufacturer
Manufacturer Name: Pac-Dent, Inc.
Address: 670 Endeavor Circle, Brea, CA 92821
U.S.A
Telephone: +1 (909) 839-0888
Email: rodin@pac-dent.com
Emergency telephone number: (U.S.) +1 800 424 9300
Emergency telephone number: (INT) +1 703 527 3887

Section 2. Hazard(s) Identification

GHS Hazard Classification of the Substance or Mixture
Acute Toxicity – Inhalation, Category 4
Skin corrosion Category 1B
Serious eye damage, Category 1
Respiratory sensitization, Category 1
Skin sensitization, Category 1
STOT – Single Exposure, Category 3
Label Elements
Pictogram



GHS05 GHS07 GHS08

Signal Word: Danger
Hazard Statement(s)
H332: Harmful if inhaled.
H314: Causes severe skin burns and eye damage.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
Precautionary Statement(s)
Prevention
P260: Do not breathe mist/vapors/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: In case of inadequate ventilation, wear respiratory protection.
Response
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Storage
P405: Store locked up.
Disposal
P501: Dispose of contents and container in accordance with local and national regulations.

Section 3. Composition/Information on Ingredients

Product is a mixture

Chemical Name, Common Name and Synonyms:	CAS # and other unique identifiers	% by Weight
2-hydroxyethyl methacrylate (HEMA)	868-77-9	15 – 35*
2-[2-(methacryloyloxy)ethoxycarbonyl]benzoic acid	27697-00-3	10 – 30*
Glutaraldehyde (glutaral)	111-30-8	3 – 7*
Glycerol phosphate dimethacrylate	Trade secret*	5 – 10*

** The exact concentrations and designated chemical identifiers are withheld as trade secrets of Pac-Dent, Inc., in accordance with applicable regulations.*

Section 4. First-Aid Measures

Description of First Aid Measures

General Advice

If medical advice is needed, have product container, label, or Safety Data Sheet available. Ensure medical personnel are aware of the material involved and take precautions to protect themselves

After Inhalation

Remove the affected person to fresh air and keep comfortable for breathing. If coughing, respiratory irritation, breathing difficulty, or asthma-like symptoms occur, seek immediate medical attention. If breathing has stopped, provide artificial respiration by trained personnel.

After Skin Contact

Immediately remove contaminated clothing and shoes. Rinse affected skin thoroughly with running water for at least 15 minutes. Seek immediate medical attention if chemical burns, persistent irritation, or allergic reactions occur. Wash contaminated clothing before reuse.

After Eye Contact

Immediately rinse cautiously with running water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Continue rinsing and seek immediate medical attention.

After Swallowing

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Exposure may cause skin burns or irritation, serious eye damage, allergic skin reactions, respiratory irritation, or respiratory sensitization. Symptoms may include redness, burning, coughing, wheezing, or difficulty breathing.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. Immediate medical attention may be required following eye exposure, significant skin exposure, ingestion, or respiratory symptoms.

Section 5. Fire-Fighting Measures

Extinguishing Media

Suitable Extinguishing Media

Use extinguishing media appropriate for the surrounding fire, including:

- Alcohol-resistant foam
- Carbon dioxide (CO_2)
- Dry chemical powder
- Water spray or fog (for cooling exposed containers)

Unsuitable Extinguishing Media

Do not use a direct water jet, as it may spread burning material.

Special Hazards Arising from the Substance or Mixture

Heating or combustion may generate irritating or toxic fumes, including carbon monoxide, carbon dioxide, and other organic decomposition products. Containers exposed to excessive heat may develop internal pressure.

Hazardous Combustion/Decomposition Products

- Carbon monoxide (CO)
- Carbon dioxide (CO_2)
- Irritating organic fumes

Advice for Firefighters

Wear self-contained breathing apparatus (SCBA) and full protective firefighting gear. Cool fire-exposed containers with water spray. Fight fire from a safe distance or protected location.

Prevent contaminated firefighting runoff from entering drains, waterways, or soil.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures
Avoid direct contact with skin, eyes, and clothing. Avoid breathing vapors, mist, or aerosols. Ensure adequate ventilation and restrict access to the affected area. Wear chemical-resistant protective gloves, chemical splash goggles, and appropriate protective clothing. Use suitable respiratory protection when ventilation is inadequate or airborne exposure may occur.
Environmental Precautions
Avoid release to the environment. Prevent material from entering drains, sewers, surface water, or soil.
Contain spill if safe to do so. Notify relevant authorities if required by applicable local, regional, or national regulations.
Methods and Material for Containment and Cleaning Up
Small Spills:
- Absorb with inert material such as sand, vermiculite, or absorbent pads.
- Transfer collected material into a suitable waste container.

Large Spills:
- Dike or contain spill area.
- Collect mechanically using non-sparking tools where appropriate.
- Place waste into labeled disposal containers.

After cleanup, wash contaminated surfaces with suitable cleaning agents while preventing environmental release.
Reference to Other Sections
- Section 7 for safe handling and storage information.
- Section 8 for exposure controls and personal protective equipment.
- Section 13 for disposal considerations.

Section 7. Handling and Storage

Precautions for Safe Handling
For professional dental use only. Handle in accordance with the product's Instructions for Use. Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapors, mist, or aerosols. Use in a well-ventilated area and wear appropriate personal protective equipment as described in Section 8.
Keep containers tightly closed when not in use. Wash hands thoroughly after handling. Do not eat, drink, or smoke while handling the product. Avoid contamination and unnecessary exposure to heat.
Conditions for Safe Storage, Including Any Incompatibilities
Store in the original tightly closed container in a cool, well-ventilated area. Protect from excessive heat and direct sunlight. Keep away from incompatible materials, including strong oxidizing agents. Store upright to prevent leakage.
Recommended Storage Temperature: 4°C to 25°C (40°F to 75°F)
Shelf Life
36 months from the date of manufacture when stored under recommended conditions.
Specific End Use(s)
Professional dental desensitization and priming applications.

Section 8. Exposure Controls / Personal Protection

Control Parameters
Component: Glutaraldehyde (CAS 111-30-8)
Occupational exposure limit:
- NIOSH REL: Ceiling 0.2 ppm (0.8 mg/m³)
- ACGIH TLV: Ceiling 0.05 ppm (0.2 mg/m³), sensitizer

No specific occupational exposure limits have been established for this mixture as a whole.
Where applicable, occupational exposure limits for individual components should be observed in accordance with local regulations. Use adequate ventilation during handling. Local exhaust ventilation is recommended where airborne exposure may occur.
Exposure Controls
Appropriate Engineering Controls
- Use in a well-ventilated area.
- Provide local exhaust ventilation where vapors, mist, or airborne particulates may be generated.
- Use enclosed or automated processing systems where practical.
- Maintain eyewash stations and hand-washing facilities in work areas.

Individual Protection Measures (Personal Protective Equipment)
Wear safety glasses with side shields or chemical splash goggles where splashing or contact is possible. Face protection may be used for high-exposure operations.
Skin Protection-Hand Protection
Wear chemical-resistant protective gloves (e.g., nitrile gloves). Replace gloves if contaminated or damaged.
Body Protection
Wear suitable protective clothing, laboratory coat, or apron to prevent repeated or prolonged skin contact.
Respiratory Protection
Use adequate ventilation to minimize exposure to glutaraldehyde vapors and aerosols. Respiratory protection is not normally required under conditions of use where airborne concentrations are adequately controlled. Where ventilation is insufficient or occupational exposure limits may be exceeded, use appropriate approved respiratory protection in accordance with applicable regulations.
General Hygiene Measures

- Wash hands thoroughly after handling and before breaks, eating, drinking, or smoking.
- Remove contaminated clothing and wash before reuse.
- Avoid contact with skin, eyes, and clothing.
- Do not eat, drink, or smoke while handling the product.

Environmental Exposure Controls
Avoid release to drains, soil, and waterways. Handle waste and residues in accordance with Section 13.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties General Information
Appearance
Form: Liquid
Color: Colorless
Odor: Fruity
Odor Threshold: Not available
pH**:** 2.5
Melting point/Melting range: Not available
Boiling point/Boiling range: Not available
Flash point: >95 °C (>203 °F)
Evaporation rate: Not available

Flammability (solid, gaseous): Not available
Auto-Ignition Temperature: Not available
Decomposition temperature: Not available
Explosion limits
Lower: Not available
Upper: Not available
Vapor Pressure: Not available
Density at 20 °C (68 °F): 1.16 g/cm³ (9.6802 lbs/gal)
Solubility: Material is soluble in water
Vapor Density: Not available
Partition coefficient (n-octanol/water): Not available
Viscosity: Not available

Section 10. Stability and Reactivity

Reactivity
No hazardous reactions are expected under normal conditions of handling, storage, and intended use.
Chemical Stability
Stable under recommended storage and handling conditions.
Possibility of Hazardous Reactions
Hazardous reactions may occur upon contact with incompatible materials. Avoid contamination with reactive chemicals.
Conditions to Avoid
Excessive heat, direct sunlight, and exposure to incompatible materials.
Incompatible Materials
Strong oxidizing agents and other chemically incompatible substances.
Hazardous Decomposition Products
Thermal decomposition or combustion may generate carbon monoxide, carbon dioxide, and irritating or toxic organic fumes.

Section 11. Toxicological Information

Information on Toxicological Effects
Inhalation: Exposure to vapors or aerosols may cause respiratory irritation, coughing, and breathing discomfort. Glutaraldehyde may cause respiratory sensitization, including asthma-like symptoms in susceptible individuals.
Skin Contact: May cause skin irritation, chemical burns, or allergic skin reactions. Repeated exposure may result in skin sensitization.
Eye Contact: May cause serious eye irritation or damage, including burning, redness, tearing, and pain.
Ingestion: May cause irritation or corrosive injury to the mouth, throat, and gastrointestinal tract.
Respiratory or Skin Sensitization: Contains glutaraldehyde and methacrylate components that may cause allergic skin reactions. Glutaraldehyde may also cause respiratory sensitization, including asthma-like symptoms following inhalation exposure.
Germ Cell Mutagenicity: No data are available for the finished mixture to establish its germ cell mutagenicity classification.
Reproductive Toxicity: No data are available for the finished mixture to establish its reproductive toxicity classification.
Acute Toxicity: Harmful if inhaled. Contains glutaraldehyde, which is associated with acute toxicity following ingestion and inhalation.
STOT – Single Exposure: May cause respiratory irritation, including coughing, throat irritation, and breathing discomfort.
STOT – Repeated Exposure: No product-specific data are available regarding specific target organ toxicity following repeated exposure.

Section 12: Ecological Information

Ecology – General
The product contains components that may be harmful to aquatic organisms. Avoid release to the environment. Do not discharge into drains, surface water, or soil.
Ecotoxicity
Glutaraldehyde (CAS 111-30-8): Toxic to aquatic organisms.
Persistence and degradability
No data available
Bioaccumulative potential
2-hydroxyethyl methacrylate has a BCF of 1.3 – 1.5, log Pow 0.42, potential for bioaccumulative is low.

Mobility in soil
No data available
Other adverse effects
No data available

Section 13. Disposal Considerations

Waste Treatment Methods
Dispose of product residues, contaminated absorbents, and cleaning materials in accordance with applicable federal, state, and local regulations. Do not discharge the product into drains, sewers, surface water, or soil.
Product Waste
Collect unused or expired material in suitable, properly labeled chemical waste containers. Dispose of through an authorized waste management service.
Contaminated Packaging
Empty containers may retain hazardous chemical residues. Do not reuse containers. Dispose of contaminated packaging in accordance with applicable regulations.
Cleaning Waste
Collect contaminated cleaning materials and absorbents separately and dispose of them as chemical waste in accordance with applicable regulations.

Section 14. Transport Information

UN Number
DOT, ADR, IMDG, IATA: UN 3265
UN Proper Shipping Name
DOT: Corrosive liquid, acidic, organic, n.o.s. (glutaral)
ADR: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (glutaral)
IMDG, IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (glutaral)
Transport Hazard Class(es)
- DOT: Class 8 – Corrosive substances
- ADR: Class 8 (C3) – Corrosive substances
- IMDG: Class 8 – Corrosive substances
- IATA: Class 8 – Corrosive substances

Packing Group
DOT, ADR, IMDG, IATA: II
Environmental Hazards
Marine Pollutant: No
Special Precautions for User
Warning: Corrosive substances
Hazard Identification Number (Kemler Code): 80
EMS Number: F-A, S-B
Segregation Group: (SGG1) Acids
Stowage Category: B
Stowage Code: SW2 – Clear of living quarters.
Transport in Bulk According to MARPOL and IBC Code
Not applicable.
Additional Transport Information
ADR – Excepted Quantities (EQ):
- Code: E2
- Maximum net quantity per inner packaging: 30 mL
- Maximum net quantity per outer packaging: 500 mL

IMDG – Limited Quantities (LQ): 1 L
IMDG – Excepted Quantities (EQ):
- Code: E2
- Maximum net quantity per inner packaging: 30 mL
- Maximum net quantity per outer packaging: 500 mL

UN Model Regulation
UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (GLUTARAL), 8, II

Section 15. Regulatory Information

Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture
This Safety Data Sheet has been prepared in accordance with applicable international regulations, including:
- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
- Regulation (EC) No 1907/2006 (REACH), as amended
- Commission Regulation (EU) 2020/878 (SDS requirements)
- Regulation (EC) No 1272/2008 (CLP)
- UK REACH Regulations

- Canada WHMIS (Workplace Hazardous Materials Information System)

CLP Classification

The product's hazard classification and labeling information are provided in Section 2.

PBT and vPvB Assessment

No PBT or vPvB substances have been identified based on the available ingredient information.

Endocrine Disrupting Properties

No components are known to be present at reportable concentrations that are identified as endocrine disruptors based on available information.

Other Regulatory Information

This product is intended for professional dental use and should be handled in accordance with applicable occupational safety regulations.

Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this mixture.

Hazard Pictograms: see section 2

Signal Word: Danger

Section 16. Other Information

Abbreviations and Acronyms

- GHS – Globally Harmonized System of Classification and Labelling of Chemicals
- CLP – Classification, Labelling and Packaging Regulation (EC) No 1272/2008
- REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals
- PBT – Persistent, Bioaccumulative and Toxic
- vPvB – Very Persistent and Very Bioaccumulative
- STOT – Specific Target Organ Toxicity
- SCBA – Self-Contained Breathing Apparatus

Key Literature References and Sources for Data

- Supplier Safety Data Sheets for raw materials
- European Chemicals Agency (ECHA) database
- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Regulation (EC) No 1907/2006 (REACH)
- Regulation (EC) No 1272/2008 (CLP)

Classification Procedure

The classification of this mixture is determined using available ingredient hazard information, applicable concentration limits, mixture classification criteria, and available test data in accordance with OSHA HazCom and applicable GHS/CLP requirements.

Relevant Hazard Statements: see section 2

Training Advice

Users should receive training in:

- Proper handling and application of dental desensitizing agents.
- Appropriate use of personal protective equipment.
- Prevention of skin, eye, and respiratory exposure.
- Safe handling, storage, spill cleanup, and disposal procedures.
- Recognition of irritation and sensitization symptoms.

Product intended for professional dental use only:

Use only in accordance with the manufacturer's Instructions for Use.

Disclaimer

The information provided in this Safety Data Sheet is based on current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only.

It should not be construed as guaranteeing any specific property of the product.

The user is responsible for ensuring compliance with all applicable laws and regulations.

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