



Release Date: 23Sep2026

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

SensiGuard

Section 1. Product and Company Identification

Product Identifier: Dental Product: Primer and Desensitizer**Trade Name:** 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
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:**Signal Word:** WARNING

Skin corrosion/irritation Category 2

Eye irritation Category 2

Skin sensitization, Category 1

Pictogram:

GHS07

Hazard Statement(s):

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

Precautionary Statement(s):**Prevention:**

P261: Avoid breathing fume/spray.

P264+P265: Wash hands thoroughly after handling. Do not touch eyes.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection.

Response:

P302+P352: IF ON SKIN: wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P321: Specific treatment (see information on this label and safety datasheet)).

P332+P317: If skin irritation occurs: Get medical help.

P333+P317: If skin irritation or rash occurs: Get medical help.

P337+P317: If eye irritation persists: Get medical help.

P362+P364: Take off contaminated clothing and wash it before reuse.

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	CAS Number	Concentration (% w/w)
Ethanol	64-17-5	10 – 30*
2-hydroxyethyl methacrylate	868-77-9	10 – 30*
2-[2-(methacryloyloxy)ethoxycarbonyl]benzoic acid	27697-00-3	10 – 30*
Glycerol phosphate dimethacrylate	*	5 – 10*

*The specific chemical composition is withheld because it is trade secret information of Pac-Dent, Inc.

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 person to fresh air and keep comfortable for breathing. If irritation, coughing, or other symptoms develop or persist, seek medical attention.

After Skin Contact

Immediately wash affected skin thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If irritation, redness, or allergic skin reaction develops, seek medical advice/attention.

After Eye Contact

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

After Swallowing

Rinse mouth thoroughly with water. Do **not** induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention if discomfort occurs or if significant quantity has been swallowed.

Most Important Symptoms and Effects, Both Acute and Delayed

- **Inhalation:** May cause respiratory irritation, coughing, or discomfort from vapors or mist.
- **Skin Contact:** May cause irritation, redness, or allergic skin sensitization after repeated exposure.
- **Eye Contact:** Causes irritation, redness, tearing, and discomfort.
- **Ingestion:** May cause gastrointestinal discomfort, nausea, or irritation.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. No specific antidote is known. For sensitized individuals, manage allergic reactions according to clinical judgment.

Section 5. Fire-Fighting Measures

Extinguishing Media**Suitable Extinguishing****Media**

Use extinguishing media appropriate for the surrounding fire, including:

- Alcohol-resistant foam
- Carbon dioxide (CO₂)
- 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

The product contains ethanol, which is classified as highly flammable. Exposure to heat may cause:

- Thermal decomposition of components
- Formation of irritating, toxic, or hazardous fumes
- Pressure build-up in closed containers
- Possible polymerization with release of heat

Hazardous combustion/decomposition products may include:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Nitrogen oxides (NO_x)
- Acrid 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 contact with skin, eyes, and clothing. Ensure adequate ventilation. Wear appropriate personal protective equipment, including:

- Safety glasses or chemical splash goggles
- Protective gloves (e.g., nitrile)
- Protective clothing / laboratory coat as needed

Avoid breathing vapors, mist, or aerosols generated during cleanup.

For non-emergency personnel, isolate the area and avoid unnecessary exposure.

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.

Section 6. Accidental Release Measures

- 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 8 for exposure controls and personal protective equipment
- Section 13 for disposal considerations

Section 7 for safe handling and storage information

Section 7. Handling and Storage

Precautions for Safe Handling

Use only in accordance with professional instructions and validated processing procedures.

Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist, or aerosols that may be generated during handling, printing, cleaning, or finishing operations.

Wear appropriate personal protective equipment as described in **Section 8**.

Use only in well-ventilated areas. Wash hands thoroughly after handling and before eating, drinking, or smoking. Keep containers tightly closed when not in use. Avoid contamination of the product with foreign materials.

Do not reuse empty containers. Residual material may remain hazardous.

Protect material from unintended exposure to sunlight, UV light, or other curing light sources.

Conditions for Safe Storage, Including Any Incompatibilities

Store in the original tightly closed container in a cool, dry, well-ventilated area protected from direct sunlight and UV light.

Recommended storage temperature:

4°C to 25°C (40°F to 77°F)

Material should be allowed to equilibrate to normal operating temperatures.

Protect from:

- Direct sunlight
- UV light / curing light sources
- Excessive heat
- Moisture
- Sources of ignition Do not freeze.

Keep away from incompatible materials such as:

- Strong oxidizing agents
- Strong reducing agents
- Peroxides
- Amines

Polymerization initiators Store upright to prevent leakage.

Shelf Life:

When stored under recommended conditions in the original sealed container, the product has a shelf life of 36 months from the date of manufacture.

Specific end use(s): For professional use only.

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines:

Ethanol	1000 ppm TWA NIOSH REL
2-hydroxyethyl methacrylate	None established.
2-[2-(methacryloyloxy)ethoxycarbonyl]benzoic acid	None established.
Glycerol phosphate dimethacrylate	None established.

Control Parameters

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)

Eye / Face Protection

Section 8. Exposure Controls / Personal Protection

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

Respiratory protection is not normally required under normal conditions of use with adequate ventilation.

If ventilation is insufficient, or if vapors, aerosols, dust, or mist are generated, use 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: Light yellow
Odor: Fruity
Odor Threshold: Not available

pH: 2.5

Melting point/Melting range: Not available

Boiling point/Boiling range: Not available

Flash point: Not available

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: Not available

Relative density: 0.96

Solubility: Material is soluble in water

Vapor Density: Not available

Partition coefficient (n-octanol/water): Not available

Viscosity: Not available

Solvent content: Not available

Organic solvents: Not available

Water: Not available

Solids content: Not available

Section 10. Stability and Reactivity

Reactivity

The product is stable under recommended conditions of storage and use.

Chemical Stability

Stable when stored in the original sealed container under recommended storage conditions.

Product contains polymerizable components that may gradually react if improperly stored or exposed to light, heat, or contamination.

Possibility of Hazardous Reactions

Hazardous polymerization may occur under certain conditions. Conditions that may initiate uncontrolled polymerization include:

- Exposure to sunlight, UV light, or curing light sources
- Elevated temperatures
- Contamination with peroxides, amines, reducing agents, or other reactive materials
- Inhibitor depletion over time
- Bulk heating in closed containers

Runaway polymerization may generate heat and pressure and may rupture sealed containers.

Conditions to Avoid

- Heat
- Direct sunlight
- UV / curing light exposure
- Sources of ignition
- Contamination
- Extended storage outside recommended temperature range

Incompatible Materials

Keep away from:

- Strong oxidizing agents
- Strong reducing agents
- Organic peroxides
- Amines
- Polymerization initiators
- Strong acids or bases where reactive incompatibility may occur

Hazardous Decomposition Products

Thermal decomposition or combustion may generate:

Section 10. Stability and Reactivity

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Irritating organic fumes
- Acrid smoke

Section 11. Toxicological Information

Inhalation: May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin: May cause moderate irritation. May cause an allergic skin reaction.

Eyes: May cause moderate irritation, including burning sensation, tearing, redness or swelling.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms: Prolonged absorption of fluorides may result in fluorosis. Symptoms include joint pain, changes in bone density (osteosclerosis), ossification of ligaments, limited mobility, teeth abnormalities and mottling of the dental enamel.

Carcinogenicity:

Ethanol	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
2-hydroxyethyl methacrylate	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
2-[2-(methacryloyloxy)ethoxycarbonyl]benzoic acid	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Glycerol phosphate dimethacrylate	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Numerical measures of toxicity:

Acute Toxicity Estimate: Product ATE: 10434.1 mg/kg (Oral)

2-hydroxyethyl methacrylate: LD50 Oral rat: 5050 mg/kg; LD50 Dermal rabbit: >3000 mg/kg

Ethanol: LD50 Oral rat: 7060 mg/kg; LD50 Dermal rabbit: >20000 mg/m3;

LC50 Inhalation rat: 124.700 mg/L/4 hr

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause an allergic skin reaction.

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Section 12. Ecological Information

Ecology - general: This product is classified as very toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Ecotoxicity:

2-hydroxyethyl methacrylate: 96 hr LC50 Pimephales promelas 227 mg/L;

72 hr IC50 Algae 836 mg/L; 48 hr EC50 Daphnia magna >280 mg/L

Ethanol: 96 hr LC50 Pimephales promelas 13500 mg/L; 48 hr EC50 Daphnia magna 2000 µg/L; 48 hr LC50 Crustaceas 25500 µg/L

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. Ethanol: log Pow -0.35, potential for bioaccumulative is low.

Mobility in soil:

No data available

Other adverse effects:

No data available

Section 13. Disposal Considerations

Regional legislation (waste): Dispose of in accordance with applicable federal, state, and local regulations.

Additional information: Flammable vapors may accumulate in the container.

Section 14. Transport Information

Transport Information**Department of Transportation (DOT)**

- UN Number: Not regulated
- UN Proper Shipping Name: Not regulated
- Transport Hazard Class(es): Not regulated

Section 14. Transport Information

- Packing Group: Not applicable
- Environmental Hazards: None known

Special Precautions for User: Transport in tightly closed original containers. Prevent leakage and avoid exposure to excessive heat or direct sunlight.

ADR/RID (Road/Rail Transport)

- UN Number: Not regulated
- UN Proper Shipping Name: Not regulated
- Transport Hazard Class(es): Not regulated
- Packing Group: Not applicable
- Environmental Hazards: None known

IMDG Code (Sea Transport)

- UN Number: Not regulated
- UN Proper Shipping Name: Not regulated
- Transport Hazard Class(es): Not regulated
- Packing Group: Not applicable
- Marine Pollutant: No
- EmS: Not applicable
- Special Precautions for User: None required under normal transport conditions.

ICAO/IATA Dangerous Goods Regulations (Air Transport)

- UN Number: Not regulated
- UN Proper Shipping Name: Not regulated
- Transport Hazard Class(es): Not regulated
- Packing Group: Not applicable
- Passenger and Cargo Aircraft: Not regulated as dangerous goods.

Special Precautions for User: Transport in tightly closed containers to prevent leakage. Avoid exposure to direct sunlight and temperatures exceeding 32°C to prevent premature polymerization. Ensure containers are securely stowed in an upright position.

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 is classified and labeled in accordance with the CLP Regulation (EC) No 1272/2008.

Refer to Section 2 for full classification, hazard statements, and precautionary statements.

REACH Status

The components of this product are:

- Registered under REACH, or
- Exempt from registration, or
- Present below applicable concentration thresholds

PBT and vPvB Assessment

This mixture does not contain substances meeting the criteria for:

- Persistent, Bioaccumulative and Toxic (PBT), or
- Very Persistent and Very Bioaccumulative (vPvB)

in accordance with REACH Annex XIII, based on available data.

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:

GHS07

Signal Word: Warning

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 based on:

- Available data on individual components
- Application of CLP/GHS classification criteria
- Bridging principles and expert judgment

Relevant Hazard Statements (Full Text)

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H317: May cause an allergic skin reaction.

Training Advice

Users should receive training in:

- Proper use of personal protective equipment
- Prevention of skin and eye contact with material
- 3D printing and validated post-processing procedures
- Proper cleaning, curing, storage, and disposal practices

Product intended for professional dental use only:

Use only as directed for professional dental or laboratory applications.

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.

Manufacturer:

Manufacturer Name: Pac-Dent, Inc.
Address: 670 Endeavor Circle, Brea, CA 92821
Telephone: +1 (909) 839-0888
Email: rodin@pac-dent.com

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