



PRISMATIK  
DENTALCRAFT, INC.

# SAFETY DATA SHEET

DOC ID: SDS-012460

Effective Date: **Aug 6, 2025**  
**Aug 6, 2025**

Revision: 1

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev.04

## Flexible Partial Resin Safety Data Sheet

### Section 1. Product and Company Identification

**Product Identifier:** Flexible Partial Resin

**Trade Name and/or synonyms:** Flexible Partial Resin

**CAS#:** see Section 3

**Recommended use:** Flexible Partial Resin is a light-cured resin for the fabrication of partial removable denture bases made in dental laboratories. The resin can be used in DLP printers utilizing a wavelength of 385nm and will be offered in G1, G3, and G4 shades formulated to match gingival tissue. The final medical device is a custom fitted appliance that is compliant to the dental professional's diagnosis and prescription.

**Restrictions on use:** Use only as indicated

**Manufacturer/Supplier:**

Prismatik Dentalcraft, Inc.

2144 Michelson Drive

Irvine, CA 92612

USA

**Emergency telephone number:**

(800) 854-7256

### Section 2. Hazard(s) Identification

**GHS Hazard Classification of the Substance or Mixture:**

(Based on the ingredients of the mixture):

Skin Corrosion/Irritation Hazard (Category 2)

Skin sensitization (Category 1)

Serious Eye Damage/Eye Irritation Hazard (Category 2A)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

Reproductive toxicity (Category 1B)

Aquatic Environment Chronic Hazard (Category 1)



**Signal Word:** Danger

**Hazard Statement(s):**

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H360: May damage fertility or the unborn child.

H410: Very toxic to aquatic life with long-lasting effects.



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### Supplemental Hazard Statements:

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

### Pictograms:



### Precautionary Statement(s):

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

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

P273: Avoid release to the environment.

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

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340+312: IF INHALED: Remove person to fresh air and keep comfortable.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P333+P313: If skin irritation or rash occurs: Get medical advice/ attention.

P337+P313: If eye irritation persists: Get medical advice/ attention.

P362: Take off contaminated clothing and wash before reuse.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal plant.

### Description of any hazards not otherwise classified:

Polymerization may occur from excessive heat, contamination or exposure to direct sunlight.

This product may release fumes and/or vapor of variable composition depending on processing time and temperature.

Possible release of traces of residual monomers.

Effects due to processing releases or residual monomers: Irritating to eyes, respiratory system and skin. Possible cross sensitization with other acrylates and methacrylates. Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness, (severity of effects depends on extent of exposure). Isocyanates may cause acute irritation and/or sensitization of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.

Medical conditions aggravated by overexposure: Respiratory disease or diminished respiratory capacity. Asthma (Data



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for residual monomer that may be released during processing).

For a mixture, the percentage of total ingredient(s) of ingredient(s) with unknown acute toxicity: <0.1%

### NFPA Ratings (0-4)



Health = 2  
Fire = 1  
Reactivity = 1

### HMIS Ratings (0-4)

Flexible Partial Denture Resin	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	C

Health =3  
Reactivity =1  
Fire =1

## Section 3. Composition/Information on Ingredients

Chemical Name, Common Name and Synonyms:	CAS # and other unique identifiers	% by Weight
Proprietary mixture of monomers/oligomers*	*	*
Photo-initiator*	*	*
2-Hydroxy-4-methoxybenzophenone	131-57-7	<0.05
Hydroquinone Monomethyl ether	150-76-5	<0.05
Colorants*	*	<0.05

\*Denotes that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## Section 4. First-Aid Measures

### General Information.

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

### After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, give oxygen. Apply artificial respiration if person is not breathing. Obtain medical attention immediately.

### After skin contact:

Remove contaminated clothing and shoes. Wash immediately with plenty of water and soap. Obtain medical attention. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Do not reuse contaminated clothing without laundering. Destroy or thoroughly clean shoes before reuse.

### After eye contact:

Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do – continue rinsing. Obtain medical advice if there are persistent symptoms.

### After swallowing:

If swallowed, call a physician immediately. DO NOT induce vomiting except at the instruction of a physician or poison control center. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

### Information for Doctors:

Treat symptomatically.



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### Section 5. Fire-Fighting Measures

#### Extinguishing Media.

#### Suitable extinguishing agents:

Water spray, foam, dry chemical

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

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Nitrogen oxides

Hydrogen cyanide

Isocyanates

Amines

Hazardous organic compounds

Polymerization is exothermic and can degenerate into an uncontrolled reaction.

#### Advice for firefighters:

Fight fire from a protected location.

Cool closed containers exposed to fire with water spray.

Closed containers of this material may explode when subjected to heat from surrounding fire.

Do not allow run-off from firefighting to enter drains or water courses.

Firefighting equipment should be thoroughly decontaminated after use.

#### Protective equipment:

Firefighters and others who may be exposed to products of combustion should wear full firefighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand/NIOSH approved or equivalent).

#### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts.

Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers.

Avoid unnecessary run-off of extinguishing media which may cause pollution.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

### Section 6. Accidental Release Measures

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

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

#### Emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Avoid generation of vapor. Prevent further leakage or spillage if you can do so without risk. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.



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

Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal as hazardous waste. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

### Cleanup Procedures:

See above.

### Environmental Precautions:

Use appropriate containment to avoid environmental contamination. Avoid release to the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

## Section 7. Handling and Storage

### Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Use only in a well-ventilated area. Wear protective gloves and eye/face protection. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Provide good ventilation of working area (local exhaust ventilation if necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values.

### Information and protection against explosions and fires:

Store out of direct sunlight in a cool well-ventilated place. Keep stabilizer levels constant to avoid explosive polymerization.

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

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

### Requirements to be met by storerooms and receptacles:

An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere.

### Information about storage in common storage facility:

Store separate from:

Strong oxidizing agents

Strong reducing agents

Free radical generators

Inert gas

Oxygen scavenger

Peroxides



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Further information about storage conditions: 15 – 30 °C

### Section 8. Exposure Controls / Personal Protection

**OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), and any other exposure limit used or recommended:**

No applicable exposure limits noted for the ingredients.

**Engineering Control parameters:**

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapors, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

**Personal protective equipment:**

See below.

**General protective and hygienic measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

**Breathing Equipment:**

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

Recommended respirators include those certified by NIOSH.

**Recommended:**

Full Face Mask with organic vapor cartridge, Type A filter (BP >65°C)

**Skin Protection:**

Avoid skin contact. Wear impermeable gloves and suitable protective clothing. Barrier creams may be used in conjunction with the gloves to provide additional skin protection.

**Protection of hands:**

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

**Eye protection:**

Wear eye/face protection such as safety glasses with side-shields conforming to EN166, chemical splash proof goggles or face shield. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

**Special requirements for Personal Protection Equipment (PPE):**

See above.

### Section 9. Physical and Chemical Properties

**Appearance:**

Form: Viscous liquid

Color: Gingival tissue tinted

Vapor Pressure at 20°C (68°F): No data

Density at 20°C (68°F): 1.08 g/cm<sup>3</sup>

Relative density: No data



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<b>Odor:</b> NA <b>Odor Threshold:</b> No data <b>Upper/lower flammability or explosive limits:</b> No data <b>pH:</b> No data <b>Change in condition</b> <b>Melting point/Freezing point:</b> No data <b>Boiling point/Boiling range:</b> No data <b>Flash point:</b> No data <b>Flammability (solid, gaseous):</b> No data <b>Ignition Temperature:</b> No data <b>Decomposition temperature:</b> No data <b>Auto ignition temperature:</b> No data <b>Danger of explosion:</b> No data <b>Explosion limits:</b> No data <b>Lower:</b> No data <b>Upper:</b> No data	<b>Vapor Density:</b> No data <b>Evaporation rate:</b> No data <b>Solubility(ies):</b> No data <b>Viscosity:</b> < 1500 cP <b>Solvent content:</b> <b>Organic solvents:</b> none <b>Water:</b> none <b>Solids content:</b> none <b>Partition coefficient: n-octanol/water:</b> No data <b>Other information:</b> No data
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## Section 10. Stability and Reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions. Reactive upon depletion of inhibitor.

### Chemical Stability under normal ambient temperatures:

Stable under recommended handling and storage conditions.

### Stabilizers needed:

### Thermal decomposition / Conditions to avoid:

Avoid exposure to direct sunlight. Avoid temperatures above 60°C (140°F). Avoid exposure to excessive heat, peroxides, polymerization catalysts. Avoid contact with oxidizing agents, free radical initiators, sunlight or ultraviolet light, bases or amines. Avoid extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

### Possibility of hazardous reactions:

Hazardous polymerization can occur when exposed to direct sunlight. Hazardous exothermic polymerization can occur when heated. Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers

### Incompatible materials:

Peroxides, strong oxidizing agents, strong reducing agents, free radical initiators, strong alkalis, acid chlorides, acid anhydrides, reactive metals, inert gases, oxygen scavengers.

### Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Thermal decomposition products may include carbon oxides, hydrocarbons, methacrylates, hazardous organic compounds.

### Other conditions to avoid:

N/A

## Section 11. Toxicological Information

### Routes of exposure:

Skin, Eyes, Respiratory System, Oral

**Acute toxicity:** No data available for the mixture. See LD/L50 values below.

**Delayed toxicity:** No data available for the mixture.

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**Chronic toxicity:** No data available for the mixture.

**Genotoxicity:** One or more ingredient(s) report(s) the following: Genotoxicity *in vivo* - rat – Intra tracheal. Unscheduled DNA synthesis. Both positive and negative responses for genetic changes were observed in laboratory tests using: animal cells, human cells.

**LD/LC50 values that are relevant for classification:**

One or more ingredient(s) report(s): LD50 Rat: >2000 mg/kg

One or more ingredient(s) report(s): dermal rabbit Acute LD50 > 2000 mg/kg

**Primary effects:**

**On the skin:**

One or more ingredient(s) report(s): Causes skin irritation.

**On the eye:**

One or more ingredient(s) report(s): Causes eye irritation.

**Inhaled:**

One or more ingredient(s) report(s): May cause respiratory irritation.

**Ingested:**

One or more ingredient(s) report(s): May be harmful if swallowed.

**Sensitization:**

One or more ingredient(s) report(s): Sensitizing.

**Additional toxicological information:**

**Specific target organ toxicity (STOT) - single exposure:**

Stomach – Irregularities – Based on Human Evidence

**Repeated exposure:**

One or more ingredient(s) report(s) the following: Prolonged or repeated contact with this material may cause allergic skin reaction. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Mutagenicity - Both positive and negative responses were observed in standard tests for genetic changes. Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue, prolonged or repeated exposure can cause: Damage to the eyes. Contains a substance/a group of substances which may damage fertility.

**Carcinogenic categories:**

**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.

**NTP (National Toxicology Program):** None of the ingredients are listed.

## Section 12: Ecological Information

**Aquatic and/or terrestrial toxicity:**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

The ecological assessment for this material is based on an evaluation of its ingredients.

**Persistence and degradability:** Not readily degradable.

**Behavior in environmental systems:** No data available for the mixture

**Bioaccumulative potential:** No data available for the mixture

**Octanol-water partition coefficient (Kow)** Unknown

**Bioconcentration Factor (BCF):** No data available for the mixture

**Mobility in Soil:** No data available for the mixture

**Other adverse effects:** None known

## Section 13. Disposal Considerations

**Disposal container recommendation:** Dispose in accordance with applicable regulations.



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### Appropriate disposal method:

Cure material before disposal. Dispose in accordance with all federal, state and local regulations. Consult state and local hazardous waste regulations to ensure complete and accurate classification of waste. US EPA guidelines for the classification of hazardous waste are found in 40 CFR part 261.3. Do not dispose as sewage. Do not contaminate ponds, waterways or ditches with chemical or used container.

**Physical and/or chemical properties affecting disposal:** Material forms an inert solid when cured according to Instructions for Use.

**Precautions for landfills or incineration:** No Data

### Section 14. Transport Information

**Land transport DOT/ADR/RID (cross-border) ADR/RID Class:** 9

**UN Number:** 3082

**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**PG:** III

**Maritime transport IMDG:**

**IMDG Class:** 9

**UN Number:** 3082

**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**PG:** III

**Marine pollutant:** YES

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** 9

**UN Number:** 3082

**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**PG:** III

**UN "Model Regulation":** United Nations Recommendation on the Transport of Dangerous Goods Model Regulations 2017

**Trade name:** Flexible Partial Resin

**Special precautions for user:** See Sections 4, 6, 7, and 8 of this Safety Data Sheet.

**Transport/Additional information:** IATA, IMDG, USDOT – exempted from regulations when shipped in individual containers < 5 liters. Individual container may be packaged together.

### Section 15. Regulatory Information

**Sara:**

**Section 355 (extremely hazardous substances):** None

**Section 313 (Specific toxic chemical listings):** This material does not contain any chemical components with known CAS numbers that exceed the threshold (*De Minimis*) reporting levels established by SARA Title III, Section 313.

**TSCA (Toxic Substances Control Act):** All ingredients are listed or exempt.

**Proposition 65:** None of the ingredients are listed.

**Chemicals known to cause cancer:** None of the ingredients are known to cause cancer.

**Chemicals known to cause reproductive toxicity for females:** None of the ingredients are known to cause reproductive toxicity.

**Chemicals known to cause reproductive toxicity for males:** None of the ingredients are known to cause reproductive toxicity.

**Chemicals known to cause developmental toxicity:** None of the ingredients are known to cause developmental toxicity. Carcinogenic categories.

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**EPA (Environmental Protection Agency)** None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH)** Not established.

**NIOSH-Ca (National Institute for Occupational Safety and Health)** None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration)** None of the ingredients are listed.

**GHS Label elements:** See Section 2

**Hazard pictograms:** See Section 2

**Signal Word:** See Section 2

**Hazard-determining components of labeling:** See Section 2

**Hazard statements:** See Section 2

**Precautionary statements:** See Section 2

**Chemical Safety Assessment:** A Chemical Safety Assessment has not been performed.

**Other:** N/A

#### Section 16. Other Information

**Date of preparation or revision:** 07/02/2025

**Other information not contained elsewhere:** This Safety Data Sheet was prepared using information from the components of the mixture.

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