

SAFETY DATA SHEET PORTUX 3D MODEL 2.0 DPDDFS-124

1 PRODUCT IDENTIFICATION



- 1.1 Chemical name: Not applicable.
- 1.2 Generic name: 3D resin for printing dental models.
- 1.3 Synonyms: Stereolithography resin, DLP resin, LCD resin, 3D resin.
- 1.4 Recommended use and restrictions on product use: Manufacture of dental models used in dental treatments and/or dental restorations. The product is not biocompatible, so it should not be used in the patient's mouth.
- 1.5 Emergency number: In case of emergency, contact the Occupational Health and Safety Coordination at (604) 403 87 60, ext. 1304, 1306.

2 HAZARD IDENTIFICATION

2.1 GHS Classification:

Health	Environment	Physicists
Skin Sensitization / Category 1-1A	Chronic toxicity Category 4	Not applicable
Corrosion / Skin Irritation / Category 2		
Serious eye damage / Eye irritation / Category 2A		

2.2 GHS Labeling:

Symbol	Word of warning	Indication of danger
	Attention	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.
	Attention	H411: Toxic to aquatic life with long-lasting effects. H413: May cause long-lasting effects to aquatic life.

2.3 Precautionary statements:

- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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- 2.4 Appearance in case of emergency: None
2.5 Potential adverse health effects: This product has no adverse health implications under normal conditions of use, treatment and storage.
2.6 NFPA: Not Applicable
2.7 OSHA Regulatory Status: Non-Hazardous.

3 COMPOSITION INFORMATION

HAZARDOUS COMPONENTS		
Common name	Concentration	CAS number
Acrylic monomers and oligomers	>94%	Not applicable
Phosphine oxides	<6%	Not applicable

NON-HAZARDOUS COMPONENTS		
Common name	Concentration	CAS number
Not applicable	Not applicable	Not applicable

4 FIRST AID MEASURES

- 4.1 Emergency procedures and first aid in case of:
- Inhalation: Move to a well-ventilated area. Seek medical attention immediately if irritation or prolonged discomfort occurs.
 - Eye contact: Rinse immediately with plenty of water for at least 10 minutes. If discomfort persists, consult an ophthalmologist immediately.
 - Skin contact: Wash with plenty of soap and water. If irritation or inflammation occurs, consult a doctor immediately.
 - Ingestion: Rinse your mouth and drink plenty of water. Do not induce vomiting and seek medical advice immediately.
- 4.2 Most important symptoms/effects (acute and/or delayed):
- Inhalation: High vapor concentrations may cause respiratory tract irritation.
 - Eye contact: Direct contact with the eyes may cause irritation and discomfort, with burning and itching sensations.
 - Skin contact: Prolonged exposure may cause irritation, inflammation, itching or dryness.
 - Ingestion: Information not available.
- 4.3 Antidote: Not applicable.
4.4 Information for physicians: Not applicable.

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5 FIRE MEASURES

- 5.1 Flammability properties: Non-flammable product.
- 5.2 Suitable extinguishing media: Have CO₂ or extinguishing powder available. Fight larger fires with water-resistant or alcohol-resistant foam.
- 5.3 Unsuitable extinguishing media: Water may be ineffective.
- 5.4 Fire Fighting Instructions: Standard Procedures for Class A Fires.
- 5.5 Firefighter Protection: Combustion of this product may release toxic vapors. Closed containers containing this product may rupture violently.
- 5.6 Protective and protective equipment for firefighters: Normal firefighting clothing, i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (specification HO A29 and A30) in combination with open circuit positive pressure compressed air self-contained breathing apparatus (BS EN 137).

6 ACCIDENTAL RELEASE MEASURES

- 6.1 Techniques, procedures, materials and protective equipment:
Small spills: Collect manually using absorbent paper. Dispose of contaminated paper according to local chemical waste regulations. Protective eyewear and gloves must be worn during this process.
Large spills: Use a plastic spatula or broom to sweep the spilled liquid into a container. Clean up any remaining spills with alcohol and absorbent cloths.
- 6.2 Environmental precautions: The product must not enter the sewage system or come into contact with surface or groundwater.
- 6.3 Other considerations: Contaminated disposable material used to clean up spills must be disposed of in accordance with established provisions.

7 HANDLING AND STORAGE

- 7.1 Handling: Safe handling precautions should be taken before handling the product; refer to all other sections of this Material Safety Data Sheet. Avoid release of the product into the environment. Do not eat, drink, or smoke during handling.
- 7.2 Storage: Store the sealed product before and after use in a cool, dry place away from direct light. Keep the product away from potential ignition sources. Avoid consuming or storing food and beverages near the product.

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8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1 Conditions to control exposure: Do not eat, drink, or smoke while handling the product.
- 8.2 Exposure parameters: Not available.
- 8.3 Engineering Controls: Appropriate ventilation or air extraction should be provided where the product is handled to prevent prolonged exposure to vapors. Avoid areas with porous walls and floors.
- 8.4 Personal protective equipment: Wear protective equipment such as gloves, a lab coat, and safety glasses when handling the product. If the work area is poorly ventilated, use a respirator with a filter.
- 8.5 Environmental Exposure Control: Emissions generated by the manufacturing process, including those generated by ventilation equipment, must be monitored to ensure compliance with environmental standards.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Opaque viscous liquid.
- Smell: Acrylic smell.
- Odor threshold: Not available.
- Physical state: Liquid.
- pH: Not available.
- Freezing or melting point: Not available.
- Evaporation rate: Not available.
- Initial boiling point and boiling range: Not available
- Flash point: >100°C (>212°F).
- Evaporation rate: Not available.
- Flammability (solid gas): Not available.
- Upper/lower flammability or explosive limits: Not available.
- Vapor Pressure: Not available.
- Vapor Density: Not available.
- Specific gravity or relative density: Not available.
- Solubility in water: Insoluble.
- Partition coefficient: n-octanol/water: Not available.
- Auto-ignition temperature: Not available.
- Decomposition temperature: Not available.
- Heat value : Not available.
- Particle size: Not available.
- Volatile organic compound content: Not available.
- Softening point: Not available.
- Pour point: Not available
- Viscosity: Not available.
- Bulk density: Not available.

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- Volatility Percentage: Not available.
- Saturated vapor concentration: Not available.
- Molecular weight: Not available.
- Molecular formula: Not available.
- Other information: Not available.

10 STABILITY AND REACTIVITY

- 10.1 Chemical stability: The product is stable under normal conditions of use and storage.
- 10.2 Possibility of hazardous reactions: The product reacts in the presence of strong oxidizing agents, alkaline materials and strong acids.
- 10.3 Conditions to avoid: Exposure to UV light or sunlight. Keep the product in its original, properly sealed container and away from direct light.
- 10.4 Incompatibility with other materials: Strong acids, strong bases, organic peroxides and hydroperoxides.
- 10.5 Hazardous decomposition products: Information not available.
- 10.6 Hazardous polymerization: Not available.

11 TOXICOLOGICAL INFORMATION

- 11.1 Possible routes of exposure: Respiratory, cutaneous and digestive
- 11.2 Acute toxicity: Data not available.
- 11.3 Chronic toxicity: Data not available.
- 11.4 Other information: This product is not biocompatible, so impressions made with the resin should not come into direct contact with the patient's oral cavity.

12 ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity: There is insufficient data collected to support this item. However, disposing of large quantities of the product in liquid form into water sources may be harmful to the ecosystem.
- 12.2 Persistence and degradability: Information not available.
- 12.3 Bioaccumulative potential: Information not available.
- 12.4 Mobility in soil: Information not available.
- 12.5 Other adverse effects: Information not available.

13 DISPOSITION CONSIDERATIONS

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Do not dispose of this product in water sources or sewage systems. This product must not be disposed of in soil or subsoil. Disposal must be carried out by an authorized waste management company, in accordance with national and local regulations.

Solid waste may be suitable for disposal in an authorized landfill and must be recovered or disposed of in accordance with national waste management regulations.

WARNING: Local laws, regulations, and restrictions may change or be reinterpreted, and may differ from national laws, so disposal considerations for materials and packaging may vary from those stated herein.

14 TRANSPORTATION INFORMATION

- 14.1 Hazardous material: Non-hazardous.
- 14.2 Risk class: None.
- 14.3 UN number: 3082.
- 14.4 IATA Classification: Not applicable.
- 14.5 Packing group: None.
- 14.6 Marine Pollutant (Yes/No): Yes

15 REGULATORY INFORMATION

- 15.1 In Colombia: No components listed or check current local regulations.
- 15.2 International: No components listed or check local regulations.

16 OTHER IMPORTANT INFORMATION

The information contained in this document is based on our current knowledge and is given in good faith, but no warranty is expressed or implied, nor is any liability assumed for improper handling of the product. This document is prepared in accordance with:

- Globally Harmonized System of Classification and Labeling of Chemicals – GHS (Globally Harmonized System of Classification and Labeling of Chemicals).
- Colombian technical standard NTC 4435:2010. Transport of Goods. Material Safety Data Sheets. Preparation.

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