



SAFETY DATA SHEET
ZAFIRA FLOW LIGHT-CURING FLOWABLE COMPOSITE®
DPDDFS-130

1 PRODUCT IDENTIFICATION

- 1.1 Chemical name: Not applicable.
1.2 Generic name: Light-curing flowable resin.
1.3 Synonyms: Flowable composite resin, light-curing flowable dental resin.
1.4 Recommended use and restrictions on use of the product: Product intended for the restoration of both anterior and posterior teeth. It must be used only for dental and dental laboratory use.
1.5 Emergency telephone number: In the event of an emergency, contact the Occupational Safety and Health Coordination Office at (57 60 4) 403 87 60, ext. 1304, 1306.

2 HAZARD IDENTIFICATION

- 2.1 GHS classification:

Health	Environment	Physical
Skin sensitization Category 2	Not hazardous	Not hazardous

- 2.2 GHS labeling:

Symbol	Signal word	Hazard statement
	Danger	May cause an allergic skin reaction.

- 2.3 Precautionary statements: May cause skin sensitization. Must be handled with gloves.
2.4 Emergency overview: None.
2.5 Potential adverse health effects: Low oral toxicity; may cause skin irritation; no adverse effects have been observed.
2.6 NFPA: Health = 2, Flammability = 1, Reactivity = 0
2.7 OSHA regulatory status: This material is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

3 COMPOSITION INFORMATION

HAZARDOUS COMPONENTS		
Common name	Concentration	CAS Number
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Trade secret	75980-60-8

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2025-09-17		Research Analyst of MD	Technical Coordinator of MD	
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NON-HAZARDOUS COMPONENTS		
Common name	Concentration	CAS Number
Bis-GMA (bisphenol A glycidyl methacrylate) / TEGDMA (triethylene glycol dimethacrylate) (80-20% w/w)	Trade secret	1565-94-2 / 109-16-0
Ethoxylated bisphenol A dimethacrylate	Trade secret	41637-38-1
TEGDMA (triethylene glycol dimethacrylate)	Trade secret	109-16-0
Barium fluoroaluminosilicate	Trade secret	65997-17-3
Barium boroaluminosilicate	Trade secret	
Camphorquinone	Trade secret	10373-78-1
Ethyl 4-dimethylaminobenzoate	Trade secret	10287-53-3

4 FIRST-AID MEASURES

4.1 Emergency and first-aid procedures in the event of:

- Inhalation: Remove the patient from exposure and move to a well-ventilated area. Obtain medical attention if necessary.
- Eye contact: Immediately flush the eyes with plenty of water, keeping them open. If symptoms persist, obtain medical attention.
- Skin contact: Wash immediately with soap and water. Remove contaminated clothing and wash it before reusing. If severe symptoms develop, obtain medical attention.
- Ingestion: Seek medical attention.

4.2 Most important symptoms/effects (acute and/or delayed): May cause eye and skin irritation.

4.3 Antidote: Not applicable.

4.4 Information for physicians: Not applicable.

5 FIRE-FIGHTING MEASURES

5.1 Flammability properties: Non-flammable material.

5.2 Suitable extinguishing media: Use an extinguishing medium suitable for ordinary combustibles, such as water or firefighting foam.

5.3 Unsuitable extinguishing media: Not available.

5.4 Fire-fighting instructions: Special protective equipment must be used. If remaining in the hazard area, self-contained breathing apparatus and suitable protective clothing must be used.

5.5 Protection of firefighters: Special protective equipment must be used, including a helmet, self-contained breathing apparatus, and suitable protective clothing.

5.6 Protective equipment and protection for firefighters: Special protective equipment, a helmet, self-contained breathing apparatus, a face mask, bands around the arms, and protective covering for exposure to high temperatures must be used.

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6 ACCIDENTAL RELEASE MEASURES

6.1 Techniques, procedures, materials, and protective equipment in the event of:

- Small spills: May be collected manually using gloves and placed in a closed container.
- Large spills: Collect as much of the spilled material as possible and place it in a closed container suitable for transport.

6.2 Environmental precautions: Not applicable.

6.3 Other considerations: None.

7 HANDLING AND STORAGE

7.1 Handling: Handle the resin using gloves to prevent contamination. During handling, do not leave the product exposed to light for an extended period, in order to prevent polymerization.

7.2 Storage: Store the product in a clean, dry place, protected from light and in its original packaging. Avoid excessive heat and store at room temperature (5 °C/41 °F - 30 °C/86 °F).

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Conditions for controlling exposure: No specific controls are required.

8.2 Engineering controls: Ensure ventilation in the work area.

8.3 Personal protective equipment: Use nitrile or latex gloves when handling the product.

8.4 Exposure parameters: Not applicable.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Paste.
- Odor: Slight monomer odor.
- Odor threshold: Not applicable.
- Physical state: Solid.
- pH: Not applicable.
- Freezing or melting point: Not applicable.
- Evaporation percentage: Not applicable.
- Initial boiling point and boiling range: Not applicable.
- Flash point: Not applicable.
- Evaporation rate: Not applicable.
- Flammability (solid/gas): Not determined.
- Upper/lower flammability or explosive limit: Not determined.

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Address: Cra. 53 No. 50-09
Guarne (Antioquia), COLOMBIA.
Phone: (57-60-4) 550 00 00 - 403 87 60
Fax: (57-60-4) 551 31 34
infocolombia@newstetic.com

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- Vapor pressure: Not applicable.
- Vapor density: Not applicable.
- Specific gravity or relative density: Not determined.
- Solubility: Insoluble in water.
- Auto-ignition temperature: Not applicable.
- Decomposition temperature: Not applicable.
- Heat value: Not applicable.
- Particle size: Not applicable.
- Volatile organic compound content: Not applicable.
- Softening point: Not applicable.
- Pour point: Not applicable.
- Viscosity: $\approx 300,000$ centipoise.
- Bulk density: 1.93 g/cm^3 .
- Volatility percentage: Not applicable.
- Saturated vapor concentration: Not applicable.
- Molecular weight: Not determined.
- Molecular formula: Not applicable.

10 STABILITY AND REACTIVITY

- 10.1 Chemical stability: Stable under normal storage conditions.
- 10.2 Possibility of hazardous reactions: None.
- 10.3 Conditions to avoid: Direct sources of light and heat.
- 10.4 Incompatibility with other materials: None.
- 10.5 Hazardous decomposition products: None.
- 10.6 Hazardous polymerization: None.

11 TOXICOLOGICAL INFORMATION

- 11.1 Possible routes of exposure: Dermal, ocular, digestive, and respiratory.
- 11.2 Acute toxicity: Dermal: Direct skin contact when using the product has no serious health implications. Allergic reactions may include redness, itching, swelling, and blistering. Eye contact: Direct eye contact when using the product has no serious health implications. Ingestion: May be harmful if swallowed. Gastrointestinal irritation: Symptoms may include abdominal pain, upset stomach, nausea, vomiting, and diarrhea. Inhalation: This product may have a characteristic odor, but there are no known inhalation hazards. There are no serious health implications.
- 11.3 Chronic toxicity: There are no serious health implications.
- 11.4 Other information: None.

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12 ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity: Not available.
- 12.2 Persistence and degradability: Not available.
- 12.3 Bioaccumulative potential: Does not accumulate in organisms.
- 12.4 Mobility in soil: Not available.
- 12.5 Other adverse effects: No adverse effects have been reported.

13 DISPOSAL CONSIDERATIONS

The container may be recyclable after use, provided that it contains no product residue. Do not discharge into bodies of water. Dispose of applicator tips in sharps containers. Comply with current applicable local regulations.

WARNING: Local laws, regulations, and restrictions may change or be reinterpreted and may differ from national requirements; therefore, disposal considerations for the material and its packaging may vary from those stated in this document.

14 TRANSPORT INFORMATION

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

15 REGULATORY INFORMATION

- 15.1 In Colombia: Not applicable.
- 15.2 International: In accordance with EEC regulations. According to the EC lists and EEC directives/Regulation on hazardous substances, the product does not require labeling.

16 OTHER IMPORTANT INFORMATION

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

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

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- Colombian Technical Standard NTC 4435:2010. Transport of Goods. Safety Data Sheets for Materials. Preparation.

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