



## Safety Data Sheet (SDS)

Release Date: 01/13/2026

Prepared in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), including requirements under EU Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) No. 1907/2006 (REACH), and OSHA Hazard Communication Standard (29 CFR 1910.1200)

### OptiFlow II

#### Section 1. Product and Company Identification

**Product Name:** OptiFlow II  
**Product Use:** Dental Composite

**Manufacturer:** Pac-Dent Inc  
670 Endeavor Cir  
Brea, CA 92821 U.S.A.  
Phone: 1-909-839-0888 (Customer Service)

**Emergency Phone Number** (Chemical spills, Leaks, Fire, Exposure or Accident only):  
In the US: 1-800-424-9300 (CHEMTREC)  
Outside the US: 1-703-527-3887

#### Section 2. Hazards Identification

**GHS Classification:**

Skin Irritation Category 2 Eye Irritation Category 2A  
Skin Sensitization Category 1  
Specific Target Organ Toxicity Single Exposure Category 3

**Signal Word:** Warning

**Label Elements:**



**Hazard Statement(s):**

H315 – Causes skin irritation  
H317 – May cause an allergic skin reaction  
H319 – Causes serious eye irritation  
H360 – May damage fertility or the unborn child

**Precautionary Statements**

**General / Prevention**

P201 – Obtain special instructions before use  
P202 – Do not handle until all safety precautions have been read and understood  
P261 – Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 – Wash thoroughly after handling  
P271 – Use only outdoors or in a well-ventilated area  
P272 – Contaminated work clothing should not be allowed out of the workplace  
P280 – Wear protective gloves/protective clothing/eye protection/face protection

**Response**

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P302+P352 – IF ON SKIN: Wash with plenty of soap and 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.  
P308+P313 – IF exposed or concerned: Get medical advice/attention  
P332+P313 – If skin irritation occurs: Get medical advice/attention  
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 – If eye irritation persists: Get medical advice/attention  
P312 – Call a POISON CENTER or doctor if you feel unwell.  
P362+P364 – Take off contaminated clothing and wash it before reuse

**Storage / Disposal**

P405 – Store locked up  
P501 – Dispose of contents and container in accordance with local/regional/national/international regulations. Do not discharge into drains or the environment. Deliver to an approved waste disposal facility or incineration site.



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NFPA Ratings (0-4)



Health = 2 (moderate hazard)  
Fire = 1 (slight flammability)  
Reactivity = 0 (stable under normal conditions)

HMIS Ratings (0-4)



Health = 2 (moderate hazard)  
Fire = 1 (slight flammability)  
Reactivity = 0 (stable under normal conditions)  
PPE = B (gloves and eye protection)

### Section 3. Composition/Information on Ingredients

Hazardous Ingredients	CAS # and other unique identifiers	% by Weight
Methacrylic Esters*	Proprietary*	50-75%
Photoinitiators*	Proprietary*	10-25%

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

### Section 4. First Aid Measures

**Inhalation:**

Immediately move person to fresh air. Keep comfortable for breathing. Seek medical attention if symptoms such as coughing or breathing difficulty occur

**Skin Contact:**

Flush thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation or rash develops.

**Eye Contact:**

Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical attention if irritation persists.

**Ingestion:**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Keep person calm and warm. Seek medical attention if symptoms occur.

**Most Important Symptoms and Effects:**

Eye irritation, skin irritation, possible allergic skin reaction. See Section 2 for details.

**Indication of Immediate Medical Attention:**

If eye irritation persists, or if allergic skin reaction occurs, seek medical care promptly.

**Information for Physicians:**

Treat symptomatically and supportively.

### Section 5. Fire Fighting Measures

**Extinguishing Media:**

**Suitable:** Water mist/fog, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), or dry chemical.

**Unsuitable:** Do not use a direct water jet, as it may spread the fire.

**Note:** Water may not be effective for extinguishing a fire involving this product; use water spray/fog only to cool containers and prevent pressure build-up.

**Special hazards arising from the substance or mixture:** Thermal decomposition may produce toxic and irritating fumes/gases. Heat can cause polymerization with rapid release of energy.

**Advice for firefighters:** Wear full protective equipment (bunker gear) and a self-contained breathing apparatus (SCBA). Avoid contact with skin, eyes, and clothing. Do not breathe fumes or vapors. Move containers from fire area if safe to do so. Avoid unnecessary runoff of extinguishing media to prevent environmental contamination.

### Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Wear safety glasses with side shields, gloves and laboratory coat recommended. Avoid contact with skin, eyes, and clothing. Ventilate area and eliminate ignition sources. Do not walk through spilled material.

**Environmental precautions:** Avoid releases to the environment. Prevent from reaching drains, sewers, and waterways. Report spills as required by local and national authorities.

**Methods and material for containment and cleaning up:** Exposure to sunlight or artificial light will cause the resin to polymerize. Spread the paste to maximize the surface area. Once the material is hard, pick up and place into a container for disposal.

**Reference to other sections:** Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.



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#### Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with the eyes, skin and clothing. Avoid breathing dust or fumes. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Do not reuse containers. Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

#### Section 8. Exposure Controls / Personal Protection

**Exposure Limits:** None established for this mixture.

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits

**Respiratory Protection:** None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Hand protection:** Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

**Eye Protection:** Chemical safety goggles are recommended if contact is possible.

**Skin Protection:** Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

**Hygiene measures:** Suitable eye and skin washing facilities should be available in the work area.

#### Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties.

**Appearance:** Light-cured, high-radiopaque, resin-based flowable composite; thixotropic paste.

**Odor:** Fruity, ester-like odor

**Odor Threshold:** N/A

**pH:** N/A

**Melting Point/Melting Range:** N/A (liquid resin – not applicable)

**Boiling Point/Boiling Range:** N/D

**Flash Point (PMCC):** >93 °C (200 °F)

**Flammability (solid, gaseous):** N/A (not a solid or gas)

**Ignition Temperature:** N/D

**Decomposition Temperature:** N/D

**Auto-Ignition:** N/D

**Explosion Hazard:** N/D

**Explosion Limits:**

- Lower: N/D
- Upper: N/D

**Vapor Pressure (20 °C / 68 °F):** N/D

**Density (20 °C / 68 °F):** N/D

**Relative Density:** N/D

**Vapor Density:** N/D

**Evaporation Rate:** N/D

**Miscibility with Water:** Nearly insoluble

**Partition Coefficient (n-octanol/water):** N/D

**Viscosity (Brookfield):** 220–250 cps at 25 °C (77 °F)

**Solvent Content:** N/D

- Organic Solvents: N/D
- Water: N/D

**Solids Content:** N/D

**Other Information:** Specific Gravity: 1.10–1.125 at 25 °C (77 °F)

#### Section 10. Stability and Reactivity

**Reactivity:** The product is not expected to be reactive.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Avoid heat and direct sunlight. Heat can cause polymerization with rapid release of energy.

**Incompatible Materials:** Oxidizing materials, reducing materials, amine, and peroxide.

**Hazardous decomposition products:** None if stored normally.



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#### Section 11. Toxicological Information

**Potential Health Effects:**

**Inhalation:** May cause mild respiratory irritation.

**Skin Contact:** Causes skin irritation; may cause allergic skin reaction.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** No significant hazards expected under normal use.

**Chronic Hazards:** Once sensitized, allergic reactions may occur upon subsequent exposure to very low levels.

**Acute toxicity:** Based on available data for individual components, the mixture is not classified as acutely toxic. Oral and dermal LD<sub>50</sub> values for major ingredients are greater than 2,000 mg/kg, indicating low acute toxicity.

**Skin Corrosion/Irritation:** Causes skin irritation.

**Eye Damage/Irritation:** Causes serious eye irritation.

**Skin Sensitization:** May cause allergic skin reaction.

**Respiratory Sensitization:** No data available; not expected to cause respiratory sensitization.

**Germ Cell Mutagenicity:** No components have shown mutagenic activity in animal studies.

**Carcinogenicity:** None of the components are listed as carcinogenic by IARC, NTP, ACGIH, or OSHA.

**Reproductive/Developmental Toxicity:** No components have been shown to cause reproductive or developmental toxicity.

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory tract irritation.

**Specific Target Organ Toxicity (Repeated Exposure):** No data available.

**Aspiration Hazard:** Not an aspiration hazard.

#### Section 12. Ecological Information

**Aquatic Toxicity:**

Not expected to be hazardous to aquatic life based on available data.

**Persistence and Degradability:**

Polymerized material is not readily biodegradable.

**Bioaccumulative Potential:**

Some components have potential for bioaccumulation; overall risk is low.

**Mobility in Soil:**

No data available; product is expected to have low mobility due to its polymeric nature.

**Results of PBT and vPvB Assessment:** Not determined.

**Other Adverse Effects:** None known.

#### Section 13. Disposal Considerations

**Disposal:** For unused product, dispose of in accordance with Federal, state, and local regulations.

**Container Disposal:** Dispose of empty container in accordance with Federal, state, and local regulations.

#### Section 14. Transport Information

**UN Number:** Not applicable

**UN Proper Shipping Name:** Not regulated

**Transport Hazard Class(es):** Not regulated

**Packing Group:** Not applicable

**Environmental Hazards:** None known

**Special Precautions for User:** None

**Transport in Bulk (per Annex II of MARPOL 73/78 and IBC Code):** Not applicable

**DOT (US):** Not regulated

**IMDG (Sea):** Not regulated

**IATA (Air):** Not regulated



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#### Section 15. Regulatory Information

**US OSHA Hazard Communication Standard (29 CFR 1910.1200):** SDS prepared in compliance with OSHA HCS.

**EPA SARA 311/312:** Refer to Section 2 for hazard classification.

**EPA SARA 313:** No reportable components.

**CERCLA:** Not subject to CERCLA reporting requirements.

**Ozone-Depleting Substances:** None present.

**EU CLP / REACH:**

Complies with CLP and REACH requirements.

No SVHCs present above 0.1%.

Product is regulated as a medical device under EU MDR (2017/745) and exempt from CLP labeling.

**International Inventories:**

US TSCA: All components listed or exempt.

Canada DSL: All components listed or exempt.

Other global inventories: All components listed or exempt.

#### Section 16. Other Information

**Abbreviations and Acronyms:** Defined where first used in this SDS.

**Other Information:** The details provided are based on current knowledge and regulations and are intended for safe handling guidance only. They do not guarantee specific product properties.