



Flowable Composite

Material Safety Data Sheet

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Division: Dental Consumables

Trade Name: NovaPro™ Flow, Flowable Composite

ID Number: NBI-R-954-015B

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SECTION 1: Identification

1.1 **Product identifier numbers:** 61215, 63118

1.2 **Recommended use and restrictions on use**

Recommended use: Dental product, Composite restorative material

Restrictions on use: For use only by dental professional

1.3 **Supplier's details**

MANUFACTURER: Nanova Biomaterials Inc.

DIVISION: Dental Division

ADDRESS: 3806 Mojave Court,

Columbia, MO, 65202, USA

Telephone: 573-875-6682

1.4 **Emergency telephone number:** 573-875-6682

SECTION 2: Hazard identification

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

2.1 **Hazard classification:** Skin Sensitizer: Category 1B.

2.2 **Label elements**

Signal word: Warning

Symbols: Exclamation mark

Pictograms



Hazard Statements: May cause an allergic skin reaction.

Precautionary Statements

Prevention: Wear protective gloves. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs:

Get medical advice/attention. Wash contaminated clothing before reuse.

Disposal: Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3 **Hazards not otherwise classified:** None.

SECTION 3: Composition/information on ingredients

1). **Ingredient**

Chemical Name	C.A.S. No.	Percent
Hydrophobic Amorphous Fumed Silica	100 402-78-6	1-10
Barium Borosilicate Glass	65997-17-3	40-80
Ethoxylated Bis Phenol A Dimethacrylate	41637-38-1	5-25
Triethylene Glycol Dimethacrylate	109-16-0	1-10
Urethane Dimethacrylate	72869-86-4	5-25
Hydroxyapatite	7758-87-4	1-10

SECTION 4: First aid measures

4.1 **Description of first aid measures**

Inhalation: Remove person to fresh air. If irritation persists, seek medical attention.

Skin Contact: Wash skin thoroughly with soap and water. If irritation persists, seek

medical attention. **Eye Contact:** Flush with water for 15 minutes including under the eyelids. If irritation persists, seek medical attention. **If Swallowed:** Rinse mouth with water. Do not induce vomiting. Seek medical attention.

4.2. **Most important symptoms and effects, both acute and delayed**

See Section 11 Information on toxicological effects.

4.3. **Indication of any immediate medical attention and special treatment**

required: Not applicable

SECTION 5: Fire-fighting measures

5.1. **Suitable extinguishing media:** In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. **Special hazards arising from the substance or mixture:** None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

5.3. **Special protective actions for fire-fighters:** No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. **Environmental precautions:** Avoid release to the environment.

6.3. **Methods and material for containment and cleaning up**

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Eye Protection: Avoid eye contact. Safety glass with side shields are recommended.

Skin Protection: Avoid skin contact. Wear nitrile gloves when handling this material.

A no touch technique is recommended. If skin contact occurs, wash with soap and water. Acrylates may penetrate commonly utilized gloves. If product contacts glove, remove and discard glove, wash hands immediately and then re-glove.

Ventilation Protection: Do not use in a confined area or areas with limited air movement. Use in a well-ventilated area.

Respiratory Protection: Avoid prolonged breathing of vapors. Avoid breathing of dust created by cutting, sanding, grinding or machining cured product.

Prevention of Accidental Ingestion: Do not eat, drink, or smoke when utilizing this product. Wash exposed areas thoroughly with soap and water. Wash hands between handling and eating. Do not ingest.

Recommended Storage: Store in a cool place away from acids, heat, and light.

Fire and Explosion Avoidance: Keep container tightly closed. Flammable liquid and vapor.

7.2. **Conditions for safe storage including any incompatibilities**

Store away from heat. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredients	Limit	Type	Authority
Titanium Dioxide	15 mg/m ³ TWA	Inhalable	OHSA
Hydrophobic Amorphous Fumed silica	3 mg/m ³ TWA	Respirable	ACGIH
Barium Borosilicate Glass	10 mg/m ³ TWA 15 mg/m ³ TWA	Respirable Respirable	ACGIH OSHA

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TWA: Time-Weighted-Average

8.2. **Exposure controls**

8.2.1. **Engineering controls:** Use in a well-ventilated area.

8.2.2. **Personal protective equipment (PPE):** Eye/face protection should prevent contact based on the results of an exposure assessment. Safety glasses with side shields are recommended. Skin protection should prevent contact. Nitrile gloves are recommended. Respiratory protection is not required.

SECTION 9: Physical and chemical properties

General Physical Form:	Solid
Specific Physical Form:	Paste
Odor, Color, Grade:	Slight acrylate odor, tooth-colored
Odor threshold	No Data Available
pH	Not Applicable
Melting point	No Data Available
Boiling Point	Not Applicable
Flash Point	No flash point
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	Not Applicable

Flammable Limits(UEL)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Specific Gravity	2.1 [Ref Std: WATER=1]
Solubility in Water	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	Not Applicable
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	~300000 centipoise
Molecular weight	No Data Available
VOC Less H2O & Exempt Solvents	No Data Available

SECTION 10: Stability and reactivity

Stability	Stable
Conditions to Avoid	Heat, light, aging and contamination
Incompatibility (Materials to avoid)	Reducing and oxidizing agents, peroxides and amines
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide during combustion

SECTION 11: Toxicological information

Eye Contact: Mild eye irritation: signs/symptoms can include redness, swelling, pain, and tearing. **Skin Contact:** Allergic skin reaction: signs/symptoms can include redness, swelling, blistering, and itching. **Mild skin irritation:** signs/symptoms can include redness, swelling, and itching. **Inhalation:** No adverse health effects are expected from inhalation exposure. **If Swallowed:** Swallowing a relatively large amount of this material is unlikely to produce serious illness or death. May cause gastrointestinal irritation.

SECTION 12: Ecological information

Ecotoxicological information: Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information: Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods: EPA Hazardous Waste Number (RCRA): Not regulated. Dispose in accordance with national and local regulations.

SECTION 14: Transport Information

For Transport Information, please contact the address or phone number listed on the first page of the SDS.

SECTION 15: Regulatory information

Contact Nanova Biomaterials Inc. for more information for Federal, State, or International Regulations. Regulations may vary, consult applicable regulation or authorities before disposal. In the event of an uncontrolled release, the user should determine if the quantity released qualifies as reportable. U.S. EPA Hazardous Waste Number: D001 (Ignitable).

SECTION 16: Other information

NFPA Hazard Classification: Health: 2; Fire: 1; Reactivity: 0

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