

TOKUYAMA DENTAL CORPORATION

MATERIAL SAFETY DATA SHEET

(According to 91/155/EEC and OSHA regulation 29 CFR 1910. 1200(g))

1. Identification of substance

Product name	ESTELITE FLOW QUICK High Flow
Description of Product	Composite Resin, For dental professionals only.
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan TEL: +81-3-3835-7201
EC Representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Düsseldorf, Germany TEL: +49 211 1754480 FAX: +49 211 357379
North America	Tokuyama America, Inc. TEL: (877)378 3548 (Dental Toll-Free)

2. Composition / Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Silica-zirconia filler	68	N/E	N/E	N/E	N/E
Bis-GMA	5-20	1565-94-2	N/E	N/E	N/E
Triethylene glycol dimethacrylate	5-20	109-16-0	N/E	N/E	N/E
Camphorquinone	<1	10373-78-1	N/E	N/E	N/E

3. Hazard identification

Hazard description	This product is not classified as dangerous preparation.
R-phrases	Not applicable.

4. First aid measures

After skin contact	Wash immediately with soap and plenty of water.
After eye contact	Wash immediately with plenty of water. Get medical attention.
After swallowing	Induce vomiting immediately. Get medical attention.

5. Fire fighting measures

Suitable extinguishing media	Chemical foam, carbon dioxide or dry chemical.
Media not to be used	None.
Combustion products and resulting gases	Irritant gas may be released during heating or in case of fire.
Special precaution for firefighters	Use protective clothing and a self-contained breathing apparatus.

6. Accidental release measures

Personal protection	Wear suitable protective groves.
Environmental protection	Not required.
Methods for cleaning up	Clean up with an inert absorbent.

7. Handling and storage

Handling	Use in a well ventilated place.
Storage	Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, direct sunlight and open flames.

8. Exposure controls / personal protection

In general	Not required.
Respiration protection	Not required.
Hand protection	Wear suitable protective gloves.
Eye protection	Wear suitable protective glasses.
Skin protection	Wear suitable protective clothing.

9. Physical and chemical properties

Appearance	Paste, Ivory tinted	Explosive properties	None
Odor	None	Oxidizing properties	None
pH	Neutral	Vapor pressure	N/A
Boiling point	None	Relative density	1.8 g/cm ³
Melting point	N/A	Solubility (water)	None
Flash point	N/A	Solubility (solvent)	N/A
Flammability	None	Partition coefficient	N/A
Autoflammability	None	Others	-

10. Stability and reactivity

Conditions to avoid	Light, heat and open flames.
Materials to avoid	Strong oxidizing agents.
Hazardous reactions	No hazardous reaction known.

11. Toxicological information

Inhalation	-
Ingestion	Slight irritation.
Skin contact	Slight irritation, repeated prolonged contact may cause skin inflammation.
Eye contact	Slight irritation.
Carcinogenicity	N/R

12. Ecological information

Biodegradability	N/A
Bioaccumulative	N/A
Aquatic toxicity	N/A

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.
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14. Transport information

Proper shipping name	Not subject to this section.
UN number	
Classification	
Packing group	
Air transport	
Sea transport	
Inland transport	

15. Regulatory information

Marking according to EU regulations	Not subject to the 67/548/EEC.
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16. Other information

The information which is contained in this document is based on available data. However, as such has been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. Tokuyama Dental Corp. has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such.

* N/E: Not Established, N/A: Not Available, N/R: Not Regulated by IARC