

**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	<b>ESTELITE FLOW QUICK</b>
Description of Product	Composite Resin, For dental professionals only.
Manufacturer	<b>Tokuyama Dental Corporation</b> 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan TEL: +81-3-3835-7201
EC Representative (Emergency Contact in EU)	<b>Tokuyama Europe GmbH</b> Oststrasse 10, 40211 Düsseldorf, Germany TEL: +49 211 1754480 FAX: +49 211 357379
North America	<b>Tokuyama America, Inc.</b> California TEL: (650)571 8872 TEL: (877)378 3548 (Dental Toll-Free)

**2. Composition / Data on components**

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Silica-zirconia filler	3-70	N/E	N/E	N/E	N/E
Silica-titania filler	3-70	N/E	N/E	N/E	N/E
Bisphenol A polyethoxy methacrylate	5-20	41637-38-1	N/E	N/E	N/E
Triethylene glycol dimethacrylate	5-20	109-16-0	N/E	N/E	N/E
1,6-bis(methacrylethylloxycarbonylamino) trimethyl hexane	5-10	72869-86-4	N/E	N/E	N/E
Camphorquinone	<1	10373-78-1	N/E	N/E	N/E

(No dangerous components)

**3. Hazard identification**

Hazard description	Not applicable.
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 <sup>3</sup>
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