

## MATERIAL SAFETY DATA SHEET

M.S.D.S. #00203 Page 1 of 2 September 10, 2009

1. Chemical Product and Contact Information

**Product Name:** Simile® nano-hybrid composite

Material Safety Sheet Number: 00203 Date of Issue: 02/10/00 09/10/09 **Revision Date:** 

Company Identification: **Pentron Clinical** 

1717 West Collins Ave. Orange, CA 92867 Phone: 800-551-0283 203-265-7397

**Emergency Information Chemtrec:** 800-424-9300 Chemtrec International: 202-483-7616

2. Composition/Information on Ingredients

A mixture of difunctional methacrylates of PCBisGMA, BisGMA, UDMA and Chemical characteristics:

HDDMA. barium boro-silicate glass\*, nano-particulated silica, zirconium silicate\*, photoinitiator, accelerator, stabilizer, silane and pigments.

contains a small amount of Al2O3

Description: Same as above.

Hazardous components: None Known.

Element	CAS#	Exposure Limit mg/m³	
		OSHA PEL	ACGIH TLV
PCBisGMA	N /A	N/E	N/E
BisGMA	1565-94-2	N/E	N/E
UDMA	74389-53-0	N/E	N/E
HDDMA	6606-59-3	N/E	N/E
Silane Treated Barium Boro-alumino Silicate Glass	N/A	N/E	N/E
Silane Treated Nano-particulated Silica	112965-52-5	Unknown	N/E
Zirconium Silicate	N /A	N/E	N/E
Pigments	Various	Unknown	Unknown
Photocuring system	Various	N/E	N/E

### 3. Hazard Identification

Risk identification:

Special risks for human

beings and environment:

Classification:

None known.

People known to be allergic to methacrylate should avoid use of this material. Classification corresponds to actual EEC guidelines.

#### 4. First Aid Measures

General information:

After skin contact:

After eye contact: After swallowing:

Wash with plenty of water and soap. Rinse with water and consult a physician.

Seek medical advice immediately.

### Fire Fighting Measures

Extinguishing media:

CO2, water. Unknown.

Protective equipment:

#### Accidental Release Measures

Personal precautions:

Protective gloves, goggles and others are recommended. Unknown.

Environmental precautions:

Methods for cleaning up: Wipe up with absorbent material. Additional information:

Unknown.

#### 7. Handling and Storage

Storage:

Store at ambient temperature. Protect from light source. Do not store in high heat

areas. Store away from foodstuffs.



## MATERIAL SAFETY DATA SHEET

M.S.D.S. #00203

Page 2 of 2 September 10, 2009

## 8. Exposure Controls/Personal Protection

Personal protective equipment: General measure of protection and hygiene:

Respiration:

Hands: Eyes:

Protective gloves, goggles are recommended. Normal hygienic measures.

Not applicable.

Protective gloves. OSHA approved goggles.

# Physical and Chemical Properties

Appearance:

Form: Color: Odor:

Viscous paste Tooth colored. Slight ester-like odor.

Information on change in the physical state

Melting point/melting range: Boiling point/boiling range:

Flash point: Autoignition temperature: Danger of explosion:

Density: Vapor pressure: Viscosity:

pH: Solubility in/miscibility with water: Content of solvents: Organic solvents:

Water: Content of solids: Not applicable. Not applicable.

Not applicable. Unknown. Not likely. c.a.1.8~1.9 g/cm<sup>3</sup> Not applicable.

Paste. Not applicable. None. None.

None None. >70%

10. Stability and Reactivity Incompatibility with other substances:

Hazardous discomposition products:

Stable. Avoid heat, direct sunlight.

Avoid peroxides, strong oxidizers, reducing agents and free radical initiators Not known.

Allergic reaction to methacrylate by exposure to product is possible.

Toxicological Information

Acute toxicity: Primary irritation: Skin Contact: Skin absorption:

Eye: Inhalation: Ingestion:

Sensitization of product:

Additional Toxicological information:

Not volatile. Possibly toxic when swallowed.

Not available.

Yes. Unknown.

Irritating.

Not observed. Non-mutangenic.

Ecological Information

General information: Classification of water endangerment: Unknown. Unknown.

13. Disposal Considerations

Product Recommendation: Disposal key number: Uncleaned packaging: Recommendation:

Dispose in accordance with local, state, and federal regulations. Unknown.

Unknown. Unknown.

Transport Information RID/ADR:

Not a hazardous material.

15. Regulatory information

Classification according to EEC guidelines: National Prescriptions:

Classification according to VbF:

No classification necessary to actual EEC guidelines.

Unknown. Not applicable.

## Other Information

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Pentron Clincial however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Pentron Clinical be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.