

1. Product and Company Information

Common Name	Light Curing Dental Composit Resins		
Model Name	HANFil		
Classification	class II a		
Licence Number			
A Use of Product and Cautions	For Dental Use Only		
Company	HANDAE CHEMICAL CO.,LTD		
Address	560-24, Songdu-ri, jinchun-gun, jinchun-eup, chungbuk, Korea		
TEL	+82-31-704-0694		
FAX	+82-31-718-0008		
WEB	http://www.handae.co.kr		
E-mail	handaechem@hanmail.net		
Establish Date & Revision Date	2020. 02. 12 (Rev. 1)		

2. Hazards Identification

Classif Divisio Cautio	n		Non-irritation, Non-Harmfulness N/A
- dduo	Ű	i	See Instruction for Use
		r	Storage Temperature Limits
	5	\leq	Do Not Use the Exceeded Expiration Date
	\sim		Manufacture Date
	LC	т	LOT Number
			Manufacturer
	EC	REP	EC Representative

3. Composition / Information on Ingredient

	CAS #	%
- Active substance		
Bis-GMA	1565-94-2	10~40
Tri(ethylene glycol) dimethacrylate	109-16-0	10~20
Urethane dimethacrylate	72869-86-4	10~20
- Non Active substance		
- Excipient		
Silicone dioxide	7631-86-9	50~80
Other Ingredients		to 100

MATERIAL SAFETY DATA SHEET

4. First Aid Measures

Controls

Equipment

Personal Protective

Skin Exposure	In case of contact with skin, wash with much amount of water for at least 10 minutes. Call a physician.			
Eye Exposure	In case of contact with eyes, flush with copious amounts of water and physiological saline for at least 10 minutes. Call a physician.			
Dentist Cautions	Protective device for the respiratory tract is highly recommended before use it.			
5. Fire Fighting Mea	sures			
Stability	Stable			
Conditions to Avoid	Direct sunlight, Extreme heat			
Hazardous Polymeriz				
Suitable Extinguishin Media				
6. Accidental Releas	e Measures			
Information to Protect the Human Body	ct Disposable gloves			
Information to Protect the Environment	Throw it away after use			
7. Handling and Storage				
nanoling of C	al specialists and the training linical Dentistry, was the handle. b tightly closed. Store this materials			
Storage in a	in a shady, cool and dry place($2\sim27$ °C / $35\sim80$ °F).			
8. Exposure Controls / PPE				
Exposure Limits	Avoid long-term exposure to the human body.			
Suitable Engineering Controls	-			

Disposable gloves

9. Physical / Chemical	Properties	12. Ecological Information	n	
Form Shade	Paste A0, A1, A2, UOA2, A3, UOA3, A3.5, A4, B1, B2, B3, C2, D3, I, UO	Ecology Toxicity Residual & Resolvability Bioconcentration Soil Mobility	N/A N/A N/A N/A	
Volume/Weight Light sensibility	4 g, 0.25 g Suitability	The Others	N/A	
Depth of Cure9.25 mmWater sorption10.2 µg/mm²Solubility2.07 µg/mm²Colour stabilitySuitabilityFlexural strength120.6 MPaRadio-opacity0.90 mm		13. Disposal Considerations Method of Disposal of Substance or Proparation Throw it away after use		
		substance or Preparation Cautions	Separate from the mixture of materials banned.	
Boiling point Melting point Flash point	N/A N/A N/A	14. Transport Information Regulatory Information	n Dot, IMDG, IATA-DGR	
Freezing point N/A 10. Stability and Reactivity		UN Number Proper Shipping name Class	N/A N/A	
Stability Polymerization by Visible Ray Possibility Polymerization Conditions to Avoid Direct Sunlight, Extreme heat Materials to Avoid N/A		Packing Group Label	N/A N/A	
		15. Regulatory Information		
		Medical Devices Law International Standard	For dental use only ISO 4049, ISO 7491, ISO 10993	
11. Toxicological InformationCytotoxicitySuitability		More Standard	EN 980, EN 1041, EN 1641, EN 13485, EN 14971	
Acute Systemic Toxicit Oral Mucosa Irritation Endotoxin	y Suitability Suitability Suitability	16. Other Information		
Pyrogenicity	Suitability	Reference Ordin	ea Medical Devices Law, inance, Regulation , MSDS, Company data : Not Applicable	

NOTE : The Information provided in this material safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and is not to be considered a warranty or representation for which Handae chemiacal co., ltd. bears legal responsibility. The Information may not be valid in any process, unless specified in the text.

