

FOR PROFESSIONAL DENTAL USE ONLY

Section 1: Product Identification & Use Light and Self-Cure Dental Resins

Product	Heliomolar® HB / Heliomolar® Flow / Heliomolar®	Product #
	Heliomolar® HB	559641-559642 / 559644
		560066 - 560074 / 560193 - 560203
	Heliomolar® Flow	557019 / 557029 - 557035
	Heliomolar®	532685 -532692 / 541501 - 541508
		550555 - 550560 / 550575 - 550576

Section 2: Hazardous Ingredients

Component	% Range	CAS#	PEL	TLV	LD50/LC50/TDL_o
Bis-GMA	10-30	1565-94-2	n.av.	n.av.	n.av.
Decandiol dimethacrylate	1-5	6701-13-9	n.av.	n.av.	n.av.
Urethane dimethacrylate	5-20	72869-86-4	n.av.	n.av.	n.av.
High dispersed silica	10-30	10193-36-9	n.av.	10 mg/m ³	n.av.
Triethyleneglycol dimethacrylate	1-10	n.av.	n.av.	n.av.	n.av.
Additional ingredients:					
Copolymer	30-60				LD-50 (oral rat) for Heliomolar ro
Ytterbiumtrifluoride	7-15				> 5000 mg/kg
Catalysts and Stabilizers	0.1-1				
Pigments	< 0.1				

Section 3: Physical Data

Boiling Point °C:	n. ap.	Melting Point °C:	n. ap.	pH:	n. det.
Vapor Pressure mm Hg:	n. ap.	Vapor Density air 1:	n. av.		
Odor Threshold:	n. ap.	Specific Gravity H₂O--1g/cm³:	1.83 g/cm ³ (20 °C)		
Appearance / Odor:	Paste, off-white to cream / practically odorless				

Section 4: Fire or Explosion Data

Flash Point °C:	> 150 °C	Autoignition °C:	n. ap.	Solubility in water:	< 0.1 %
Flammable Limits % In Air / Upper:	n. av.	Lower:	n. av.		
Extinguisher Media:	Water fog, carbon dioxide, foam, dry chemicals				
Other Fire and Explosion Hazards:	None				
Hazardous Combustion Products:	None				

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Section 5: Reactivity Data

Chemical Stability: Stable **If No...Under What Conditions:** n. ap.
Incompatibility with other Substances: Yes
If So...Which Ones: Avoid excessive heat and sunlight
Reactivity and Under What Conditions: Slow polymerization when exposed to heat, sunlight
Hazardous Polymerization: Will not occur

Section 6: Toxicological Properties

Primary Routes of Entry: Ingestion, inhalation, eyes
Symptoms of Acute Exposure: Prolonged or frequently repeated skin contact with the uncured material may cause allergic skin reactions in some individuals
Symptoms of Chronic Exposure: Irritation to uncured resins, or mechanical irritation from dust or grindings

Medical Conditions Generally Aggravated by Exposure: Uncured material: Direct contact can cause eye and skin irritation. The material is contraindicated if a person is known to be allergic to any of the ingredients of the product.

Carcinogen/ Potential Carcinogen:	No	NTP:	No	IARC	No	OSHA Reg.:	No
Teratogenicity:	No	Reproductive Toxicity:	No				
Embryo Toxin:	No	Sensitization:	No				

Section 7: Preventative Measures

Eyes: Safety goggles **Gloves:** Yes
Ventilation: Good general ventilation should be sufficient.
Respiratory Protection: Dust mask while cutting or grinding
Leak and Spill Procedure: Clean up mechanically. Dispose of according to local and national regulations.
Waste Disposal Methods: Take to an approved landfill or waste incineration plant, under conditions approved by the local authority.
Storage: Store open packages at 12-28°C / 54-82°F. Cool storage of 2-8°C / 36-46°F is indicated for larger stock.
Shipment: n.ap.
Other Preventative Measures: Avoid inhalation or exposure to light. Only adequate trained personnel should handle this product.

Section 8: First Aid Measure

Inhalation: Remove victim to fresh air.
Ingestion: No hazards anticipated from swallowing small amounts incidentally to normal handling.
Eyes: Flush with plenty of water. Consult a physician if irritation persists.
Skin: Wash thoroughly with soap and water.

Section 9: Preparation Data

Prepared by: Anderjeet Gulati (716) 691-0010 **Date:** February 1, 2001 **Ref:** LVZ 7/14/94, GLS 03/01/91

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