

Safety Data Sheet According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 05/16/2016 Date of issue: 05/16/2016

Version: 2.0

SECTION 1: Identification

1.1. **Product identifier** Product form : Mixture : Nano Hybrid BisGMA Composite Product name Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : For professional dental use only. Details of the supplier of the safety data sheet 1.3. Dental Health Products, Inc. 2614 North Sugar Bush Rd. New Franken, WI 54229 U.S.A. Telephone: 1-800-626-2163 www.dhpsupply.com

Emergency telephone number 1.4.

Emergency number : 800-424-9300 CHEMTREC; 1-703-527-3887 CHEMTREC - Outside USA

SECTION 2: Hazards identification

2.1. Classification of the substan	ce or mixture
Classification (GHS-US)	
Skin Irrit. 2 H315	
Eye Irrit. 2A H319	
Skin Sens. 1 H317	
Aquatic Chronic 3 H412	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation
	H317 - May cause an allergic skin reaction
	H319 - Causes serious eye irritation
	H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS-US)	: P261 - Avoid breathing vapors, mist, or spray.
	P264 - Wash hands, forearms, and other exposed areas thoroughly after
	handling.
	P272 - Contaminated work clothing must not be allowed out of the
	workplace.
	P273 - Avoid release to the environment.
	P280 - Wear eye protection, protective gloves, protective clothing.
	P302+P352 - If on skin: Wash with plenty of water.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
	P321 - Specific treatment (see Section 4 on this SDS).
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other hazards

Other hazards not contributing to the : No additional information available

classification

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Barium Glass	(CAS No) 65997-18-4	60 - 70	Not classified
2-Propenoic acid, 2-methyl-, (1-	(CAS No) 1565-94-2	10.5 - 20.08	Skin Irrit. 2, H315
methylethylidene)bis[4,1-phenyleneoxy(2-			Eye Irrit. 2A, H319
hydroxy-3,1-propanediyl)] ester			Skin Sens. 1, H317
Ytterbium oxide (Yb2O3)	(CAS No) 1314-37-0	4 - 12.75	Not classified
2-Propenoic acid, 2-methyl-, 1,6-hexanediyl	(CAS No) 6606-59-3	1.125 - 3.5	Skin Irrit. 2, H315
ester			Eye Irrit. 2A, H319
Silica, amorphous	(CAS No) 7631-86-9	0.75 - 3	Not classified
2-Propenoic acid, 2-methyl-, 3-	(CAS No) 2530-85-0	0.51 - 1.751	Not classified
(trimethoxysilyl)propyl ester			

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
First-aid measures after skin contact	: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms a	and effects, both acute and delayed
Symptoms/injuries	: May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation.
Symptoms/injuries after inhalation	: None expected under normal conditions of use.
Symptoms/injuries after skin contact	: May cause an allergic skin reaction. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Exposure may produce an allergic reaction.

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

Safety Data Sheet According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

According to Federal Register / Vol. 77, No. 58 / Monday, Marc	h 26, 2012 / Rules and Regulations
SECTION 5: Fire-Fighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread
	fire.
5.2. Special hazards arising from	I the substance or mixture
Fire hazard	: Not considered flammable but may burn at high temperatures.
Explosion hazard	: Product is not explosive.
Reactivity	: No reactivity hazard.
5.3. Advice for firefighters	
Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including
	respiratory protection.
Other information	: Refer to Section 9 for flammability properties.
SECTION 6: Accidental release	measures
	ective equipment and emergency procedures
General measures	: Avoid all contact with skin, eyes, or clothing.
6.1.1. For non-emergency personnel	
Protective equipment	: Use appropriate personal protection equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Upon arrival at the scene, a first responder is expected to recognize the
	presence of dangerous goods, protect oneself and the public, secure the
	area, and call for the assistance of trained personnel as soon as conditions
	permit.
6.2. Environmental precautions	
Prevent entry to sewers and public wa	ters.
6.3. Methods and material for c	ontainment and cleaning up
For containment	: Absorb and/or contain spill with inert material, then place in suitable
	container.
Methods for cleaning up	: Clear up spills immediately and dispose of waste safely.
6.4. Reference to other sections	
See Section 8, Exposure Controls and P	Personal Protection. See Section 13, Disposal Considerations.
SECTION 7: Handling and stor	age
7.1. Precautions for safe handlin	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.
,0	Wash hands and other exposed areas with mild soap and water before
	eating, drinking, or smoking and again when leaving work.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Store in a dry, cool and well-ventilated place. Keep container closed when
	not in use.
Incompatible products	: Strong acids. Strong bases. Strong oxidizers.
7.3. Specific end use(s)	
For professional dental use only.	

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

8.2. Exposure controls

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.
Personal protective equipment	: Safety glasses. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: If exposure limits are exceeded or irritation is experienced, approved
	respiratory protection should be worn.
Other information	: When using, do not eat, drink or smoke.
SECTION 9: Physical and chem	
9.1. Information on basic physic	
Physical state	: Liquid
Appearance	: No data available
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Evaporation Rate	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition Temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available
9.2. Other information	
VOC content	: <1%

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard.

10.2. Chemical stability

Product is stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Hydrocarbons. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
----------------	------------------

Barium Glass (65997-18-4)		
LD50 oral rat	> 2000 mg/kg	
Silica, amorphous (7631-86-9)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 2.2 mg/l (Exposure time: 1 h)	
2-Propenoic acid, 2-methyl-, 3-(trimet	hoxysilyl)propyl ester (2530-85-0)	
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Silica, amorphous (7631-86-9)		
IARC group	3	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exp	posure) : Not classified	
Specific target organ toxicity (repeated	exposure) : Not classified	
Aspiration hazard	: Not classified	
Symptoms/injuries after inhalation	: None expected under normal conditions of use.	
Symptoms/injuries after skin contact	: May cause an allergic skin reaction. Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.	
Symptoms/injuries after ingestion	: May be harmful if swallowed.	
Chronic symptoms	: Exposure may produce an allergic reaction.	

SECTION 12: Ecological information

12.1. Toxicity

Silica, amorphous (7631-86-9)		
LC50 fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])	
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)	
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (2530-85-0)		
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Danio rerio)	
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ErC50 (algae)	> 100 mg/l (Exposure time: 72 h - Species: Scenedesmus subspicatus)
NOEC chronic fish	>= 100 mg/l (Exposure time: 96 h - Species: Danio rerio)
NOEC chronic crustacea	>= 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC chronic algae	> 100 mg/l (Exposure time: 72 h - Species: Scenedesmus subspicatus)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Silica, amorphous (7631-86-9)		
BCF fish 1	(no bioaccumulation expected)	
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (2530-85-0)		
Log Pow	2.1	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Nano Hybrid BisGMA Composite

Nano Hybrid Bisgivia Composite		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
	Delayed (chronic) health hazard	
Barium Glass (65997-18-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Ytterbium oxide (Yb2O3) (1314-37-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Silica, amorphous (7631-86-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (2530-85-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester (1565-		
94-2)		

: No supplementary information available.

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester (6606-59-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Barium Glass (65997-18-4)			
U.S Texas - Effects Screening Levels - Long Term			
U.S Texas - Effects Screening Levels - Short Term			
Silica, amorphous (7631-86-9)			
U.S California - Toxic Air Contaminant List (AB 1807, AB 2	728)		
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 mil	n)		
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)			
RTK - U.S Massachusetts - Right To Know List			
U.S Minnesota - Hazardous Substance List			
U.S New Hampshire - Regulated Toxic Air Pollutants - Am	ibient Air Levels (AALs) - 24-Hour		
U.S New Hampshire - Regulated Toxic Air Pollutants - Am	U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual		
RTK - U.S New Jersey - Right to Know Hazardous Substance List			
U.S Oregon - Permissible Exposure Limits - Mineral Dusts			
RTK - U.S Pennsylvania - RTK (Right to Know) List			
U.S Texas - Effects Screening Levels - Long Term			
U.S Texas - Effects Screening Levels - Short Term			
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (2530-85-0)			
U.S Texas - Effects Screening Levels - Long Term			
U.S Texas - Effects Screening Levels - Short Term			
Bisphenol A (80-05-7)			
U.S California - Proposition 65 - Female List	WARNING: This product contains chemicals known to the		
	State of California to cause birth defects or reproductive		
	harm		

ion, including date of preparation or last revision
: 05/16/2016
: This document has been prepared in accordance with the SDS requirements
of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
Hazardous to the aquatic environment - Chronic Hazard Category 3
Serious eye damage/eye irritation Category 2A
Skin corrosion/irritation Category 2
Skin sensitization Category 1
Causes skin irritation
May cause an allergic skin reaction

Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Causes serious eye irritation

SDS US (GHS HazCom 2012)

H319

H412