

# DM Healthcare Products, Inc.

## Safety Data Sheet

MSDS ID: H1344

Revised Date: 01/01/19  
Replaces Date: 10/17/16

### 1. General Information

Product Code: H1344-XX where XX is the mean particle size  
Trade Name(s): Silanated Inorganic Glass  
Product Type: Dental  
Recommended Use:  
Restrictions: None identified

Company: DM Healthcare Products, Inc.  
10080 Willow Creek Rd.  
San Diego, CA 92131  
Telephone: 858-348-1122

Emergency phone number (spill, leak, fire, exposure or accident):  
US Domestic (800) 535-5053 (INFOTRAC) Includes Canada and Mexico  
International +1 (352) 323-3500  
China Specific (86) 400-120-0761  
Germany Specific (49) 0800-181-2924  
Australia Specific (61) 1-300-366-961

### 2. Hazards Identification

**EMERGENCY OVERVIEW:** CAUTION – Dust is irritating to respiratory tract, eyes and skin. Spills may present a slipping hazard.

#### Classification of the substance or mixture

#### Classification according to 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2)  
Eye irritation (Category 2)  
Carcinogenicity (Category 2)  
Specific target organ toxicity - single exposure (Category 3)

#### Classification according to 29 CFR 1910 (OSHA HCS)

Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect.

Pictogram



Signal word Warning

#### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.

#### Precautionary statements

P261 Avoid breathing dust.  
P281 Use personal protective equipment as required.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing.

Other hazards None

### 3. Composition Information

ITEM	CHEMICAL NAME	CAS #:	EINECS #	R Phrases	WT/WT %
01	Glass	65997-17-3	266-046-0	NA	>99%

### 4. First Aid Measures

#### EMERGENCY AND FIRST AID PROCEDURES:

**EYES:** Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

**INGESTION:** Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give water or milk to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

**INHALATION:** Remove to fresh air. Seek immediate medical attention.

**SKIN:** If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician.

**CLOTHING:** Remove contaminated clothing. Wash thoroughly before reuse.

**TREATMENT:** Treat symptoms conventionally, after thorough decontamination.

**NOTE TO PHYSICIANS:** None available.

### 5. Fire and Explosion Hazard Data

**FLASH POINT:** Refer to Section 9 for details.

**SUITABLE EXTINGUISHING MEDIA:** NA

**UNSUITABLE EXTINGUISHING MEDIA:** NA

**PRODUCTS OF COMBUSTION:** NA

**FIRE AND EXPLOSION HAZARDS:** Material is noncombustible.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use extinguishing method and media suitable to surrounding fire.

**SENSITIVE TO MECHANICAL IMPACT:** No

**SENSITIVE TO STATIC DISCHARGE:** No

### 6. Accidental Release Measures

**PERSONAL PRECAUTIONS:** Review Section 5 before proceeding with clean-up. Individuals involved must wear appropriate Personal Protective Equipment that is specified in

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Section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

### ENVIRONMENTAL PRECAUTIONS:

Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

### METHODS FOR CONTAINMENT:

NA

### METHODS FOR CLEAN-UP:

Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Place into appropriate closed

## 7. Handling and Storage

### HANDLING PROCEDURES:

Use in well ventilated areas. Avoid breathing dust. Refer to Section 8 for suggested exposure controls and personal protection. Observe precautions found on label. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping.

### STORAGE PROCEDURES:

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination.

## 8. Exposure Controls and Personal Protection Measures

ITEM*	ACGIH		OSHA	
	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING
Glass <sup>1</sup>	10 mg/m <sup>3</sup>	NE	15 mg/m <sup>3**</sup>	NE
Glass <sup>2</sup>	5 mg/m <sup>3</sup>	NE	5 mg/m <sup>3</sup>	NE

Note 1: Particulates Not Otherwise Regulated - Total

Note 2: Particulates Not Otherwise Regulated - Respirable

\* Abbreviations can be found in Section 16

\*\* OSHA regulates this material as PNOR – Particles Not Otherwise Regulated.

### ENGINEERING CONTROLS:

Use local ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. Use local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

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### RESPIRATORY PROTECTION:

A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

### EYE/FACE PROTECTION:

Depending on the use of this product safety glasses or goggles may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

### HAND/SKIN PROTECTION:

Avoid skin contact. Wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards. No special body protection is required under typical circumstances of use and handling.

### GENERAL HYGIENE CONSIDERATIONS:

Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

## 9. Physical / Chemical Characteristics

<b>APPEARANCE/COLOR:</b>	White
<b>PHYSICAL STATE:</b>	Powder
<b>ODOR:</b>	Faint odor in bulk.
<b>ODOR THRESHOLD:</b>	ND
<b>pH:</b>	ND
<b>FREEZING POINT:</b>	NA
<b>BOILING POINT:</b>	NA
<b>FLASH POINT (closed cup):</b>	NA
<b>EVAPORATION RATE (BuAc=1):</b>	ND
<b>FLAMMABLE LIMIT, AIR VOL% LOWER/ UPPER:</b>	NA
<b>VAPOR PRESSURE:</b>	NA
<b>VAPOR DENSITY (AIR=1):</b>	NA
<b>RELATIVE DENSITY:</b>	NA
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	2.2-3.6
<b>SOLUBILITY IN WATER:</b>	Insoluble.
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>DECOMPOSITION TEMPERATURE:</b>	NE
<b>PERCENT VOLATILE W/W%:</b>	NA

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### 10. Reactivity Hazard Data

<b>STABILITY:</b>	<b>UNSTABLE:</b>	<b>STABLE:</b>	X
<b>CONDITIONS TO AVOID:</b>	Material is stable under ordinary conditions.		
<b>INCOMPATIBLE MATERIALS:</b>	None Known		
<b>HAZARDOUS DECOMPOSITION PRODUCTS: NA</b>			
<b>HAZARDOUS POLYMERIZATION:</b>	<b>MAY OCCUR:</b>	<b>WILL NOT OCCUR:</b>	X
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	<b>MAY OCCUR:</b>	<b>WILL NOT OCCUR:</b>	X

### 11. Toxicological Information

#### TARGET ORGANS:

For Glass:

None Listed.

#### SYMPTOMS:

Refer to Section 2 for information.

#### IMMEDIATE/DELAYED EFFECTS:

Refer to Section 2 for information.

#### TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There are extensive toxicological data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. If you need more information, please contact DMHPI at the telephone number found in Section 1.

#### SENSITIZATION:

No data available.

#### IRRITANCY:

No data available.

#### CHRONIC EXPOSURE:

Carcinogenicity:

3-Group3: Not classifiable as to its carcinogenicity to humans (Glass, oxide, chemicals this category encompasses the various chemical substances manufactured in the production of inorganic glasses)

2A-Group2A: Probably carcinogenic to humans (Glass, oxide, chemicals this category encompasses the various chemical substances manufactured in the production of inorganic glasses)

Reproductive Toxicity:

This product is not reported to cause reproductive effects in humans.

Teratogenicity:

This product is not reported to cause teratogenic effects in humans.

Mutagenicity Data:

This product is not reported to produce mutagenic effects in humans.

#### NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS:

No data available.

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### 12. Ecological Information

#### AQUATIC TOXICITY:

There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

#### ENVIRONMENTAL FATE:

This inorganic product is expected to persist in the environment.

### 13. Disposal Considerations

#### WASTE DISPOSAL METHOD:

Dispose in a landfill or incinerate according to Federal, State, and Local regulations. Note fine powder glass (<100 microns) may not be disposed of in a municipal landfill without written approval from the facility accepting the waste.

#### DISPOSAL OF EMPTY CONTAINERS:

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual material, associated with empty containers. It is our policy to discourage the reuse of empty containers and to dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

### 14. Transport Information

#### DOT (GROUND), IATA, IMDG:

PROPER SHIPPING NAME: Not regulated.

TECHNICAL NAME: NA

DOT/UN CLASS: NA

NA/UN NUMBER: NA

PACKING GROUP: NA

DOT RQ: NA

### 15. Regulatory Information

#### United States:

OSHA: This material is considered Hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) as Particles Not Otherwise Regulated (PNOR).

TSCA Inventory Status: The components of this product are listed or are excluded from listing on the TSCA Inventory.

SARA Section 302: There are no specific Threshold Planning Quantities for this product.

SARA Section 311/312: Acute Health

SARA Section 313: NA

CERCLA Reportable Quantity (RQ): NA

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State Regulatory Information: This product may contain components that are covered under specific state criteria.

California Prop 65: NA

### Canada:

DSL/NDSL: The components of this product are listed on the DSL.

WHMIS Hazard Class: Uncontrolled Product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

### Europe:

EINECS: The components of this product are listed or exempt from listing in EINECS.

Candidate List: NA.

CSR Available: No.

## 16. Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. While that data contained herein is factual, it should not be taken as warranty or representation for which the company assumes legal responsibility. It is offered solely for your consideration, investigation and verification. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

### ABBREVIATIONS:

NA	Not Applicable	ND	Not Determined
NE	Not Established	CPR	Controlled Products Regulation
ppm	parts per million	G	Gallon
mg	Milligram	L	Liter
gm	Gram	mol	Mole
kg	Kilogram	μ	Micro
mm	Millimeter	p	Pico
Pa	Pascals		
LC	Lethal Concentration	LD	Lethal Dose
TC	Toxic Concentration	TD	Toxic Dose
BOD	Biological Oxygen Demand	COD	Chemical Oxygen Demand
Lo	Lowest	ThOD	Theoretical Oxygen Demand
TLm	Threshold Limit		
H	Hours	M	Months
D	Days	Y	Years
W	Weeks		

OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienist
IARC	International Agency for Research for Cancer
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
NOEL	No Observed Effect Level
NOAEL	No Observed Adverse Effect Level

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The opinions expressed herein are those of qualified experts within DM Healthcare Products, Inc. We believe that the information contained herein is current, as of the date of this MSDS. Because the use of this information and of these opinions, and the conditions of use of this product, are not within the control of DM Healthcare Products, Inc., it is the user's legal obligation to determine the conditions of safe use of this product.