



# Safety Data Sheet

Data Sheet conforms to Regulation (EC) 1907/2006,  
Regulation (EC) 1272/2008 and Regulation (EC) 2020/878,  
US 29CFR1910.1200, Canada Hazardous Products  
Regulation

Date Issued: 23 September 2016  
Document Number: 001025  
Date Revised: 04 August 2022  
Revision Number: 5

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier:

**Trade Name (as labeled):**

Dentsply Sirona PMMA Discs

**Part/Item Number:**

8072612, 8071012, 8071112, 8071212, 8071312, 8071412,  
8071512, 8071612, 8071712, 8071812, 8071912, 8072012,  
8072112, 8072212, 8072312, 8072412, 8072512, 8072616,  
8071016, 8071116, 8071216, 8071316, 8071416, 8071516,  
8071616, 8071716, 8071816, 8071916, 8072016, 8072116,  
8072216, 8072316, 8072416, 8072516, 8072620, 8071020,  
8071120, 8071220, 8071320, 8071420, 8071520, 8071620,  
8071720, 8071820, 8071920, 8072020, 8072120, 8072220,  
8072320, 8072420, 8072520, 8082612, 8081012, 8083112,  
8081112, 8081212, 8081312, 8081412, 8081512, 8083212,  
8081612, 8081712, 8081812, 8081912, 8082012, 8082112,  
8082212, 8082312, 8082412, 8082512, 8082612, 8081016,  
8083116, 8081116, 8081216, 8081316, 8081416, 8081516,  
8083216, 8081616, 8081716, 8081816, 8081916, 8082016,  
8082116, 8082216, 8082316, 8082416, 8082516, 8082620,  
8081020, 8083120, 8081120, 8081220, 8081320, 8081420,  
8081520, 8083220, 8081620, 8081720, 8081820, 8081920,  
8082020, 8082120, 8082220, 8082320, 8082420, 8082520,  
8092712, 8092716, 8092720, 8092725, 8092812, 8092816,  
8092820, 8092825, 8082625, 8081025, 8081125, 8081225,  
8081525, 8081925

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

**Recommended Use:**

Used to machine denture teeth, as well as crowns and bridges.

**Restrictions on Use:**

For Professional Use Only

### 1.3 Details of the Supplier of the Safety Data Sheet:

**Manufacturer/Supplier Name:**

Dentsply Sirona

**Manufacturer/Supplier Address:**

1301 Smile Way  
York, PA 17404

**Manufacturer/Supplier Telephone Number:**

717-845-7511 (Product Information)

**Email address:**

Prosthetics-SDS@dentsplysirona.com

### 1.4 Emergency Telephone Number:

800-243-1942

Emergency Contact Telephone Number:

800-243-1942

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture:

GHS Classification:		
Health	Environmental	Physical
Not Hazardous	Not Hazardous	Not Hazardous

### 2.2 Label Elements:

Signal Word: None

Hazard Phrases	Precautionary Phrases
None Required	None Required

2.3 Other Hazards: None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture:

Hazardous Components	C.A.S. #	EINECS # / REACH Registration #	Classification	WT %
Polymethyl methacrylate (PMMA)	Mixture	Mixture	Not Applicable	100
Titanium Dioxide*	13463-67-7	236-675-5 /	Carc. 2, H351	<0.2

\*Titanium dioxide is inextricably bound within the polymer matrix of this product.

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS Classifications.

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures:

<b>Eye</b>	Flush eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation persists.
<b>Skin</b>	Wash skin with soap and water. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	No first aid should be required; if exposed to dust generated during cutting or handling: remove victim to fresh air.
<b>Ingestion</b>	If small quantities are swallowed, rinse out mouth with water. If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Product dust may be mechanically irritating to eyes, skin and respiratory system.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Immediate medical attention is not required.

## 5. FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media:</b>	This product is not classified as flammable or combustible.
<b>5.2 Special Hazards Arising from the Substance or Mixture:</b>	
Decomposition may release oxides of carbon, methyl methacrylate, and irritating smoke and fumes.	
<b>5.3 Advice for Fire-Fighters:</b>	
<b>Fire Fighting Procedures/Precautions for Fire Fighters:</b>	Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Do not enter fire area without proper protection.

## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions, Protective Equipment and Emergency Procedures:</b>	
Avoid contact with skin, eyes or clothing.	
<b>6.2 Environmental Precautions:</b>	
Report releases as required by local and national authorities.	
<b>6.3 Methods and Material for Containment and Cleaning up:</b>	
Pick up material and place into a container for disposal.	
<b>6.4 Reference to Other Sections:</b>	
Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.	

## 7. HANDLING AND STORAGE

<b>7.1 Precautions for Safe Handling:</b>	
Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling.	
Empty containers retain product residues. Follow all SDS precautions when handling empty containers.	
<b>7.2 Conditions for Safe Storage, Including Any Incompatibilities:</b> Store in a cool, dry, well-ventilated location away from heat, and direct sunlight.	
<b>7.3 Specific End Use (s):</b> For professional use only.	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control Parameters:</b>
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<b>Occupational Exposure Limits:</b>	
Polymethyl methacrylate (PMMA)	None established
Titanium Dioxide	0.2 mg/m <sup>3</sup> (respirable) TWA ACGIH TLV nanoscale particles
	2.5 mg/m <sup>3</sup> (respirable) TWA ACGIH TLV finescale particles
	15 mg/m <sup>3</sup> TWA OSHA PEL (Total Dust)
	0.3 mg/ m <sup>3</sup> (respirable) TWA DFG MAK
	2.4 mg/m <sup>3</sup> (respirable) STEL (15 min average value) DFG MAK
	10 mg/m <sup>3</sup> (Inhalable), 4 mg/m <sup>3</sup> (Respirable) TWA UK WEL
	10 mg/m <sup>3</sup> TWA Belgium OEL
<b>Biological Exposure Limits:</b> None Established	
<b>8.2 Exposure Controls:</b>	
<b>Appropriate Engineering Controls:</b> Use with adequate local exhaust ventilation to maintain exposures below excessive levels.	
<b>Individual Protection Measures (PPE):</b> <b>Specific Eye/face Protection:</b> None needed. <b>Specific Skin Protection:</b> None needed. <b>Specific Respiratory Protection:</b> None under normal use conditions. If the product is heated and ventilation is inadequate, wear an approved respirator appropriate for the exposure conditions. <b>Specific Thermal Hazards:</b> None	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties:

<b>Appearance:</b>	Solid, various colored	<b>Explosive limits:</b>	<b>LEL:</b> Not determined <b>UEL:</b> Not determined
<b>Color:</b>	various colors	<b>Physical State:</b>	Solid
<b>Odor:</b>	Odorless	<b>Vapor pressure (mmHg):</b>	Not applicable
<b>Odor threshold:</b>	Not determined	<b>Relative Vapor Pressure @20°C: (Air = 1)</b>	Not applicable
<b>pH:</b>	Not applicable	<b>Relative density:</b>	1.18
<b>Melting/freezing point:</b>	Not determined	<b>Solubility(ies):</b>	Insoluble in water
<b>Initial boiling point and boiling range:</b>	Not determined	<b>Partition coefficient: n-octanol/water:</b>	Not applicable
<b>Flash point:</b>	Not applicable	<b>Auto-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not applicable	<b>Decomposition temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Kinematic Viscosity:</b>	Not applicable

**9.2 Other Information:**

**9.2.1 Properties, Safety Characteristics and Test Results for Physical Hazards:** None determined.

**9.2.2 Other Safety Characteristics:** None determined.

**10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity:</b> None known.
<b>10.2 Chemical Stability:</b> Stable under normal conditions.
<b>10.3 Possibility of Hazardous Reactions:</b> None known.
<b>10.4 Conditions to Avoid:</b> Avoid extreme heat and direct sunlight.
<b>10.5 Incompatible materials:</b> Avoid oxidizing agents.
<b>10.6 Hazardous Decomposition Products:</b> Decomposition may release oxides of carbon, methyl methacrylate, and irritating smoke and fumes.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on Toxicological Effects:**

<p><b>Potential Health Effects:</b> <u>Eyes:</u> Dust may cause eye irritation during processing. <u>Skin:</u> None expected with normal use. <u>Ingestion:</u> Small amounts are not anticipated to cause adverse effects. Large quantities may cause gastrointestinal disturbances. <u>Inhalation:</u> Inhalation of dust or fumes while burning may cause mild irritation of the eyes, nose and upper respiratory tract. Symptoms include coughing, sneezing and difficulty in breathing.</p>
<p><b>Chronic Health Effects:</b> None expected under normal use.</p>
<p><b>Eye Irritation/ Damage:</b> Based on available data, the classification criteria are not met.</p>
<p><b>Skin Irritation / Corrosivity:</b> Based on available data, the classification criteria are not met.</p>
<p><b>Sensitization:</b> Based on available data, the classification criteria are not met.</p>
<p><b>Carcinogenicity:</b> Based on available data, the classification criteria are not met. This material may contain a proprietary amount of titanium dioxide. Titanium Dioxide is classified by IARC as a group 2B carcinogen (possible human carcinogen). The titanium dioxide in this product is inextricably bound within a polymer matrix and will not present a risk of exposure. None of the other components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU CLP.</p>
<p><b>Mutagenicity:</b> Based on available data, the classification criteria are not met.</p>
<p><b>Acute Toxicity Data:</b> Not acutely toxic.</p>
<p><b>Reproductive Toxicity Data:</b> Based on available data, the classification criteria are not met.</p>
<p><b>Specific Target Organ Toxicity Single Exposure (STOT-SE):</b> Based on available data, the classification criteria are not met.</p>

**Specific Target Organ Toxicity Repeated Exposure (STOT-RE):**

Based on available data, the classification criteria are not met.

**11.2 Information on Other Hazards**

**11.2.1 Endocrine Disrupting Properties:** None known

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

No ecotoxicity data available

**12.2 Persistence and Degradability:** No data is currently available

**12.3 Bio-accumulative Potential:** No data is currently available

**12.4 Mobility in Soil:** No data is currently available

**12.5 Results of PBT and vPvB Assessment:** Not applicable

**12.6 Endocrine disrupting Properties:** None known.

**12.7 Other Adverse Effects:** None

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods:**

**Waste Treatment Recommendations:** Dispose in accordance with all national and local regulations.

**14. TRANSPORT INFORMATION**

	<b>14.1 UN Number</b>	<b>14.2 UN Proper Shipping Name</b>	<b>14.3 Hazard Class(s)</b>	<b>14.4 Packing Group</b>	<b>14.5 Environmental Hazards</b>
<b>DOT</b>	None	Not Regulated	None	None	Not applicable
<b>ADR/RID</b>	None	Not Regulated	None	None	Not applicable
<b>IMDG</b>	None	Not Regulated	None	None	Not applicable
<b>IATA/ICAO</b>	None	Not Regulated	None	None	Not applicable

**14.6 Special Precautions for User:** Not applicable.

**14.7 Transport in Bulk According to IMO Instruments:** Not applicable.

**15. REGULATORY INFORMATION**

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

**U.S. Federal Regulations**

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA

reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**Toxic Substances Control Act (TSCA):** All of the components of this product are listed on the TSCA inventory.

**Clean Water Act (CWA):** This material is not regulated under the Clean Water Act.

**Clean Air Act (CAA):** This material is not regulated under the Clean Air Act.

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA Section 311/312 (40 CFR 370) Hazard Categories:** See OSHA Hazard Classification in Section 2.

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):** None

#### **State Regulations**

**California:** This product contains Titanium Dioxide and Carbon Black\*, which are known to the State of California to cause cancer. The Titanium Dioxide and Carbon Black in this product are in a polymer solid inextricably bound within the chemical matrix of the product and no exposure can occur. Regulation applies when titanium dioxide and Carbon Black are airborne and in unbound particles of respirable size.

#### **International Regulations**

**EU REACH:** All components requiring registration have been pre-registered.

**Australian Inventory of Chemical Substances:** All of the components in this product are listed on the AICS for Australia.

**15.2 Chemical Safety Assessment:** None required.

## **16. OTHER INFORMATION**

HMIS Hazard Rating:

Health – 0      Flammability – 1      Physical Hazard – 0

Full text of Classification abbreviations used in Section 2 and 3:

Carc. 2 Carcinogen Category 2

H351 Suspected of causing cancer.

Supersedes: 12 April 2021

Date Updated: 04 August 2022

Revision Summary: Revised for Regulation (EC) 2020/878, Changes to all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, ECHA REACH Registration Website, Country websites for occupational exposure limits.