

DENTSPLY International
DENTSPLY PROSTHETICS

Safety Data Sheet

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1. PRODUCT IDENTIFICATION

Trade Name (as labeled): Lucitone 199® Powder
Product Identifier (Part/Item Number): 688103, 688203, 688303, 688403, 688105, 688205, 688305, 688405, 688106, 688206, 688306, 688406, 688111, 688211, 688311, 688411, 688102, 688107, 688120, 688220, 688320, 688420
U.N. Number: None
U.N. Dangerous Goods Classification: Not Regulated for Transport
Recommended Use: Resin used in removable dental appliances.
Restrictions on Use: For Professional Use Only
Manufacturer/Supplier Name: Dentsply Prosthetics
Manufacturer/Supplier Address: 570 West College Ave.
York, PA 17405-0872
Manufacturer/Supplier Telephone Number: 717-845-7511 (Product Information)
Emergency Contact Telephone Number: 800-424-9300 Chemtrec
Email address: Prosthetics_MSDS@Dentsply.com

2. HAZARD(s) IDENTIFICATION

EU Classification (1999/45/EC): Not Classified as Hazardous

Labeling in accordance with 1999/45/EC: No labelling required

US Hazard Classification: Not Hazardous

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. #	EINECS #	Substance Classification	WT %
Polymethylmethacrylate	Proprietary	Proprietary	Not classified as hazardous	90 - 100





4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Immediately flush victim's eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation persists.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Launder clothing before re-use.
Inhalation	Remove victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. Get medical attention if symptoms persist.
Ingestion	If conscious, wash mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.
Most important symptoms of exposure	Dust may cause mild eye and respiratory irritation. Individuals with sensitivity to methacrylates may develop an allergic reaction when exposed to this product.
Note to Physicians (Treatment, Testing, and Monitoring) Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog, carbon dioxide dry chemical.
Fire Fighting Procedures:	Do not use a water stream. Water stream can disperse dust in air producing a fire hazard and possible explosion hazard if exposed to ignition source. Use water to cool fire exposed containers.
Specific Hazards Arising from the Chemical:	High concentrations of dust in air may be explosive.
Precautions for Fire Fighters:	Do not enter fire area without proper protection. Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.

Recommended Protective Equipment for Fire Fighters:

EYES/FACE	HANDS	RESPIRATORY	SKIN
			



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Wear appropriate protective clothing as described in Section 8. Remove all sources of ignition. Caution: Spilled powder can be a slip hazard. Avoid contact with skin, eyes or clothing.

Environmental Precautions: Do not allow spills to enter sewers or waterways. Report releases as required by local, state, and national authorities.

Methods and Materials for Containment and Clean-up: Do not generate airborne dust. Carefully collect and place into a container for disposal.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes and skin. Do not breathe dust. Wash thoroughly after handling. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Use good housekeeping to minimize accumulation of dust on equipment and surfaces. Keep away from sources of heat or ignition sources.

Conditions for Safe Storage: Store in a cool, dry, well ventilated area. Keep container tightly closed when not in use. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Polymethylmethacrylate:

- 15 mg/m³ TWA OSHA PEL (Total Dust)
- 5 mg/m³ TWA OSHA PEL (Respirable)
- 10 mg/m³ TWA WEL (Inhalable)
- 4 mg/m³ TWA WEL (Respirable)
- 4 mg/m³ TWA MAK (Inhalable)
- 1.5 mg/m³ TWA MAK (Respirable)

Biological Exposure Limits: None established.

Appropriate Engineering Controls: Use adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.



Individual Protection Measures (PPE)

Specific Eye/face Protection: Wear safety glasses or goggles where eye contact is possible.

Specific Skin Protection: Wear impervious gloves such as rubber if needed to avoid skin contact.

Specific Respiratory Protection: If the exposure limits are exceeded an approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with all applicable regulations and good industrial hygiene practice.

Specific Thermal Hazards: Impervious clothing as needed to avoid contamination of personal clothing.

Recommended Personal Protective Equipment			
EYES/FACE	HANDS	RESPIRATORY	SKIN
			
Environmental Exposure Controls: None required for normal use.			
General Hygiene Considerations and Work Practices: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.			
Protective Measures During Repair and Maintenance of Contaminated Equipment: Wear appropriate protective clothing and equipment.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pink free flowing powder	Explosive limits:	LEL: 20 g/m ³ UEL: Not applicable
Odor:	Faint methacrylate odor	Vapor pressure:	Not applicable
Odor threshold:	Not available	Vapor density:	Not applicable
pH:	Not applicable	Relative density:	Not available
Melting/freezing point:	Not applicable	Solubility:	Not Soluble
Initial boiling point and range:	Not applicable	Partition coefficient: n-octanol/water:	Not available
Flash point:	572°F (304°C)	Auto-ignition temperature:	>570°F (>300°C)
Evaporation rate:	Not applicable	Decomposition temperature:	392°F (200°C)
Flammability:	Not applicable	Viscosity:	Not applicable
Explosive Properties:	High concentrations of dust in air may be explosive.	Oxidizing Properties:	None

10. STABILITY AND REACTIVITY

Reactivity: None known

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known

Conditions to Avoid: Excessive heat (temperatures greater than 392°F (200°C))

Incompatible materials: Oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may release carbon oxides and methyl methacrylate.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Dust may cause irritation with redness and tearing.

Skin: Dust may cause irritation, redness, rash and swelling. Individuals with sensitivity to methacrylates may develop an allergic reaction.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Inhalation of dust may cause irritation of the nose, throat and upper respiratory tract.

Chronic Health Effects: Prolonged or repeated overexposure may cause skin irritation or sensitization in some individuals.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC or NTP or the EU directive.

Mutagenicity: No data available

Medical Conditions Aggravated by Exposure: Individuals with pre-existing skin and respiratory disorders may be at increased risk from exposure.

Acute Toxicity Data: No data available

Reproductive Toxicity Data: No data available

Specific Target Organ Toxicity (STOT):

Single Exposure: No data available

Repeated Exposure: No data available

12. ECOLOGICAL INFORMATION

Toxicity: Expected to have low toxicity to aquatic organisms.

Persistence and Degradability: Not biodegradable.

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

Results of PBT/vPvB Assessment: No data available

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose in accordance with all national and local regulations.

Properties (Physical/Chemical) Affecting Disposal: No data available

Waste Treatment Recommendations: No data available

14. TRANSPORT INFORMATION

UN Identification Number: N/A

UN Proper Shipping Name: Not regulated for transport

Transport hazard class(es): N/A

Packing Group: N/A

Special precautions for user: None

15. REGULATORY INFORMATION

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): This product is a medical device and not subject to chemical notification requirements.

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:

Immediate Hazard:	No	Pressure Hazard:	No
Delayed Hazard:	No	Reactivity Hazard:	No
Fire Hazard:	No		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
None		

State Regulations

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

International Regulations

Canadian Environmental Protection Act:

This product is a medical device and not subject to chemical notification requirements.

Canadian Workplace Hazardous Materials Information System (WHMIS):

This product is a medical device and not subject to WHMIS requirements.

European Inventory of Existing Chemicals (EINECS):

This product is a medical device and not subject to chemical notification requirements.

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

Australian Inventory of Chemical Substances:

This product is a medical device and not subject to chemical notification requirements.

China Inventory of Existing Chemicals and Chemical Substances:

This product is a medical device and not subject to chemical notification requirements.

Korean Existing Chemicals List:

This product is a medical device and not subject to chemical notification requirements.

Philippine Inventory of Chemicals and Chemical Substances:

This product is a medical device and not subject to chemical notification requirements.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health –1 Flammability – 1 Physical Hazard – 0

Full text of Classification abbreviations used in Section 2 and 3: None.

Supersedes: December 3, 2007

Revision Summary: Change in format. Comprehensive review. Changes to all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.