

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : Merz Dental GmbH
Address : Eetzweg 20
D-24321 Lütjenburg Germany
Emergency Telephone # : 1-800-535-5053 (outside the United States call collect 1-352-323-3500)
Facsimile Number : +49 (0) 4381-403-100
Trade Name : **artegral[®] ImCrown; PMMA-Disc; artBloc[®] Temp**
Chemical Name/ Synonyms : Polymethylmethacrylate
INCI Name : Polymethylmethacrylate

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>EINECS #</u>
Polymethylmethacrylate	9011-14-7	-----

SECTION 3: HAZARD IDENTIFICATION

No particular danger

SECTION 4: FIRST AID MEASURES

Effects and Symptoms:

Effects of Overexposure : Dust may cause mechanical irritation to eyes.
Medical Conditions Aggravated by Exposure : Persons with respiratory conditions may be at increased risk to dust.
Primary Route(s) of Entry : Skin and eye contact.

Emergency First Aid:

Eye Contact : Flush eyes with water for at least 15 min. See physician if irritation persists.
Skin Contact : Flush skin with water.
Inhalation : Remove to fresh air. If breathing is difficult give oxygen. See physician.
Ingestion : None needed for small amounts. For large amounts, if conscious, give water and call physician. Do not induce vomiting.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (ASTM D 1929-68) : >250°C
Flammable Limits LEL/UEL % : N/A
Auto Ignition Temp. (ASTM D 1929-68) : >400°C
Extinguishing Media : Water, Dry Chemical, Foam, and CO2
Special Fire Fighting Procedures : Self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards : Prevent the accumulation of air borne dust/dust cloud. The potential of a dust cloud explosion exists.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Eye contact and excessive skin contact.
Environmental Precautions: : Prevent material from contaminating soil or entering sewerage and drainage systems.
Spill response : Use appropriate NIOHS/MSHA approved respirator. Wear chemical gloves, goggles, and lab coat. Carefully contain spilled material Deposit spilled material in appropriate waste container.

SECTION 7: HANDLING AND STORAGE

Handling : Use with adequate ventilation. Avoid contact with eyes. Wash thoroughly after handling and before mealtimes.
Storage : Store away from all possible combustion.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels: OSHA ACGIH
None established TWA PEL TWA TLV

Personal Protection:

Eye Protection : Safety glasses with side shields or goggles.
Skin Protection : Rubber gloves, wash hands before meals and end of work day.
Respiratory Protection : Use NIOSH/MSHA approved air-purifying respirator as needed to control exposure.
Ventilation : Provide adequate general mechanical exhaust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°C) : N/A Percent Volatile By Vol. (%) : N/A
Freezing Point (°C) : N/A Vapor Density (Air=1) : N/A
Melting Point (°C) : >225 Evaporation Rate (Buac=1) : N/A
Vapor Pressure (mm hg) : N/A Solubility In Water : N/A
Specific Gravity (H2O=1) : approx.1.19 g/cm³ at 20 °C Appearance & Odor : Solid, color varies, odorless

SECTION 10: STABILITY AND REACTIVITY

Stable : Yes
Hazardous Polymerization : Will not occur
Conditions to Avoid : Open flames and sparks, extreme heat, oxidizing materials
Incompatibility : Oxidizing materials and strong caustic materials can cause a reaction.
Hazardous Decomposition Products : Incomplete combustion can form CO, CO₂, and dense smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Irritation & Sensitization : Non-Irritant (Rabbits) and non-sensitizer (Guinea Pigs)
Primary Eye Irritation : Non-Irritant (Rabbits)
Acute Oral Toxicity (rat) : 35.0g/kg (Mice)

SECTION 12: ECOLOGICAL INFORMATION

No Data

SECTION 13: DISPOSAL CONSIDERATIONS

Method of Disposal : Dispose of in accordance with all applicable federal, state, and local regulations. Material may be sent to an approved landfill or licensed treatment, storage, and disposal facility.

SECTION 14: TRANSPORT INFORMATION

Classification : Non-hazardous

SECTION 15: REGULATORY INFORMATION

No data.

SECTION 16: OTHER INFORMATION

Prepared Date : October 5, 2006. Updated 26-May-2008
By : Richard G. Hunter, MS, RAC
HMIS Ratings : Health - 0 Flammability -1 Reactivity - 0
Ratings Key : 4= Highest hazard, 0= Lowest hazard,

Note:

The statements made here are intended to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics. This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our current knowledge.