MATERIAL SAFETY DATA SHEET

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Section 1 - Product and Company Information			
Product Name Product Number	POLY(METHYL METHACRYLATE), AVERAGE MW CA . 15,000 (GPC) 200336 ALDRICH		
Brand			
Company Address	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 US		
Technical Phone:	800-325-5832		
Fax: Emergency Phone:	800-325-5052 314-776-6555		
Section 2 - Composition/Info			
Substance Name	CAS #		
POLY(METHYL METHACRYLATE)	9011-14-7	NO	
Acrypet * Ac * Acrysol as 21LV * AO 10 Degalan LP 5 Delpet 60N * * Diakon MG * Elvacite * Elvacite 201 Elvacite 601 Kallodent 22 K 120 N * Ko * Lucite * L Lucite 129 * * Lucite 129 * * Lucite 180 Methacrylic methacrylate polymer * Me 2-Methyl-2-p homopolymer (Polymer) * Osteobond su Paraglas * P	0 D * Acrylite * Acryloid A-15 rypet M 001 * Acrypet V * Acryp e * Akuripetto VH * Altulor M 7 * Cmw bone cement * Crinothene 9/03 * Degalan S 85 * Delpet 50 Delpet 80N * Diakon * Diakon I * Diakon MG 101 * Disapol M * I Elvacite 2008 * Elvacite 2009 0 * Elvacite 2021 * Elvacite 200 1 * Elvacite 6012 * Kallocryl F 2 * Kallodent clear * Kaneace F rad * LPT * LPT 1 * LSO-M * LSO ucite 30 * Lucite 47 * Lucite 1 Lucite 130 * Lucite 140 * Lucit * Metaplex NO * Metaplex 40027 acid methyl ester polymers * Me homopolymer * Methyl methacryJ thyl methacrylate resin * ropenoic acid methyl ester (9CI) * MH 101-2 * 50N * 50N Organic glass E 2 * Osteobond * rgical bone cement * Palacos * arapet 60N * Paraplex P 543 * 81 * Perspex * PLEX 8572-F *	pet VH 70 * A = * DM * LO 951 DV 400 * D41 * (* PA 20 * D-M 4B L20 * ite 147 F * ethyl Late	

Section 3 - Hazards Identification

HMIS RATING HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

NFPA RATING HEALTH: 0 FLAMMABILITY: 0 **REACTIVITY:** 0 For additional information on toxicity, please refer to Section 11. Section 4 - First Aid Measures ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician. INHALATION EXPOSURE If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. DERMAL EXPOSURE In case of contact, immediately wash skin with soap and copious amounts of water. EYE EXPOSURE In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. Section 5 - Fire Fighting Measures CONDITIONS OF FLAMMABILITY Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air. FLASH POINT N/A AUTOIGNITION TEMP 304 °C FLAMMABILITY N/A EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. FIREFIGHTING Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. Section 6 - Accidental Release Measures PROCEDURE(S) OF PERSONAL PRECAUTION(S) Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. METHODS FOR CLEANING UP Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

		. Avoid contact with eyes, skin, or repeated exposure.
STORAGE Suitable: Keep tight	ly closed.	
Section 8 - Exposure Co	ntrols / PP	Έ
ENGINEERING CONTROLS Safety shower and ey	e bath. Mec	hanical exhaust required.
under appropriate go (EU). Respiratory pr	pirators an overnment st otection is of dusts a t masks. ves. goggles.	nd components tested and approved andards such as NIOSH (US) or CEN a not required. Where protection are desired, use type N95 (US) or
Wash thoroughly afte		
Section 9 - Physical/Ch	emical Prop	perties
Appearance	Physical S	tate: Solid
Property	Value	At Temperature or Pressure
pH BP/BP Range MP/MP Range Freezing Point Vapor Pressure Vapor Density Saturated Vapor Conc. SG/Density Bulk Density Odor Threshold Volatile% VOC Content Water Content Evaporation Rate Viscosity Surface Tension Partition Coefficient Decomposition Temp. Flash Point Explosion Limits Flammability Autoignition Temp Refractive Index Optical Rotation Miscellaneous Data Solubility	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	

Section 10 - Stability and Reactivity

STABILITY Stable: Stable. Materials to Avoid: Strong oxidizing agents, Strong acids. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed. SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. CHRONIC EXPOSURE - CARCINOGEN Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. Species: Rat Route of Application: Implant Dose: 127 MG/KG Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. Species: Mouse Route of Application: Implant Dose: 800 MG/KG Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. Species: Rat Route of Application: Implant Dose: 1882 MG/KG Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. Tumorigenic: Tumors at site or application. Species: Mouse Route of Application: Implant Dose: 13 GM/KG Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. Species: Mouse Route of Application: Implant Dose: 1280 MG/KG Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. IARC CARCINOGEN LIST

Rating: Group 3

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION SARA LISTED: No TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: Yes NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a quide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.