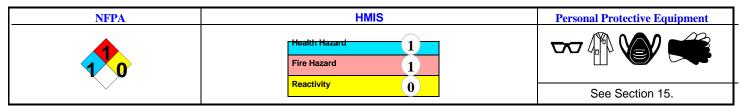




Material Safety Data Sheet



Section 1. Chem	ical Product and Com	pany Identificati	on		Page	e Number: 1
Common Name/ Trade Name	Polymethyl Methacrylate		Catalog Number(s).	P1875		
				CAS#	9011-14-7	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.		CTS INC.	RTECS	TR0400000	
		14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) Polymethyl M) inventory: ethacrylate
Commercial Name(s)	Acrylite; Acrypet; Acrysol ase; Crinothene; Delpet 50M; Delpet 60N; Delpet 80N; Diakon; Disapol M; Elvacite; Kallocryl K; Kallodent 222; Kallodent clear; LPT; Lucite; Metaplex 4002T; Metaplex NO; Osteobond; Palacos; Paraglas; Perspex; Plexiglas; PMMA; Pontalite; Repairsin; Riston; Romacryl; Shinkolite; Sol 90; Sol 95; Stellon Pink; Sumipex B-MH; Sumipex LG; Sumipex LO; Sumipex B-MHD; Superacryl AE; Superacryl O; Tensol 7 Torex G; Vedril			CI#	Not available	
Synonym	Methacrylic acid methyl ester polymers; Methyl methacrylate homopolymer; Methyl methacrylate polymer; Methyl methacrylate resin; Poly(methacrylic Acid Methyl Ester); Polymethyl Methacrylate (avg. M.W. 350,000)			IN CASE OF	<u>EMERGENCY</u> (24hr) 800-424-9.	<u>300</u>
Chemical Name	2-Propenoic acid, 2-methyl-, methyl ester, homopolymer					
Chemical Family	Not available.			CALL (310) 5	16-8000	
Chemical Formula	[CH2C(CH3)(CO2CH3)]n					
Supplier	SPECTRUM LABORATO 14422 S. SAN PEDRO ST GARDENA, CA 90248					
Section 2.Compo	sition and Information	on Ingredients				
			j	Exposure Limits	1	
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight

Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Polymethyl Methacrylate		9011-14-7				100
Toxicological Data on Ingredients	Not applicable.					

Polymethyl Methacr	ylate Page Number: 2	
Section 3. Hazards lo	dentification	
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.	
Section 4. First Aid I	Neasures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of wat for at least 15 minutes. Get medical attention if irritation occurs.	ter
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.	on
Serious Skin Contact	Not available.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxyge Get medical attention.	∋n.
Serious Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth an unconscious person. If large quantities of this material are swallowed, call a physician immediatel Loosen tight clothing such as a collar, tie, belt or waistband.	
Serious Ingestion	Not available.	
Section 5. Fire and E	xplosion Data	
Flammability of the Product	May be combustible at high temperature.	
Auto-Ignition Temperature	304°C (579.2°F)	
Flash Points	CLOSED CUP: >250℃ (482年).	
Flammable Limits	Not available.	
Products of Combustion	These products are carbon oxides (CO, CO2).	
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.	
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	Material in powder form, capable of creating a dust explosion. As with most organic solids, fire is possible elevated temperatures	at
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potenti dust explosion hazard.	ial

Page Number: 3 Polymethyl Methacrylate Section 6. Accidental Release Measures Small Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Large Spill Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Section 7. Handling and Storage Precautions Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, acids. Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Section 8. Exposure Controls/Personal Protection **Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. **Personal Protection** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Dust respirator is needed only when handling the material in powdered form. Personal Protection in Case of Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be a Large Spill used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. **Exposure Limits** Not available. Section 9. Physical and Chemical Properties Physical state and appearance Solid. (Powdered solid. Crystalline powder. Odor Not available. Beads solid.) Not available. Taste Not available. Molecular Weight Color White. pH (1% soln/water) Not applicable. **Boiling Point** Not available. Melting Point Glass Transition Temperature (Tg) for catalog number P1875: 122 deg. C (midpoint). Critical Temperature Not available. 1.17 - 1.2 (Water = 1) Specific Gravity Vapor Pressure Not applicable. Vapor Density Not available. Volatility Not available. **Odor Threshold** Not available. Not available. Water/Oil Dist. Coeff. Ionicity (in Water) Not available. **Dispersion Properties** See solubility in water, acetone. Solubility Soluble in acetone. Insoluble in cold water. Soluble in Ethyl Acetate, esters, ketones, aromatics an glycol ethers. Insoluble in alcohols, and aliphatic hydrocarbons.

Polymethyl Methacrylate Page Number:				
Section 10. Stability and Reactivity Data				
Stability	The product is stable.			
Instability Temperature	Not available.			
Conditions of Instability	Excess heat, incompatible materials, dust generation.			
Incompatibility with various substances	Reactive with oxidizing agents, acids.			
Corrosivity	Not available.			
Special Remarks on Reactivity	Not available.			
Special Remarks on Corrosivity	Not available.			
Polymerization	Will not occur.			
Section 11. Toxicolo	gical Information			
Routes of Entry	Inhalation. Ingestion.			
Toxicity to Animals	LD50: Not available. LC50: Not available.			
Chronic Effects on Humans	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.			
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.			
Special Remarks on Toxicity to Animals	Not available.			
Special Remarks on Chronic Effects on Humans	May cause cancer based on animal test data. Polymethyl Methacrylate caused tumors when implanter rats and mice. It is considered and equivocal tumorigenic agent by RTECS and is not classifiable a carcinogenicity in humans by IARC.			
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Contact with powder may cause skin irritation. Eyes: Dust may cause eye irritation due to mechanical action. Inhalation: Inhalation of dust may cause respiratory tract due mechanical action. Ingestion: Expected to be a low hazard. May cause digestive tract irritation. Chronic Potential Health Effects:			

Ingestion: Expected to be a low hazard. May cause digestive tract irritation. Chronic Potential Health Effects: Skin: Repeated or prolonged skin contact may cause allergic contact dermatitis. Inhalation: Repeated or prolonged inhalation of dust may cause allergic or asthmatic reaction. Ingestion: Prolonged or repeated ingestion may affect the liver, kidneys, and brain (expratolated from Methyl methyacrylate)

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	Not available.

Polymethyl Metha	acrylate	Page Number: 5	
Section 13. Dispos	sal Considerations		
Waste Disposal	Waste must be disposed of in accordance with federal, st control regulations.	tate and local environmental	
Section 14. Transp	port Information		
DOT Classification	Not a DOT controlled material (United States).		
Identification	Not applicable.		
Special Provisions for Transport	Not applicable.		
DOT (Pictograms)			
Section 15. Other	Regulatory Information and Pictograms		
Federal and State Regulations	TSCA 8(b) inventory: Polymethyl Methacrylate		
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients found to cause cancer which would require a warning under the state California prop. 65: This product contains the following ingredients found to cause birth defects which would require a warning under the	ute: No products were found. for which the State of California has	
Other Regulations	EINECS: This product is not on the European Inventory of Existing Commercial Chemical Substances. Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS.		
Other Classifications	WHMIS (Canada) Not controlled under WHMIS (Canada).		
	DSCL (EEC) This product is not classified Not app according to the EU regulations.	licable.	
HMIS (U.S.A.)	Health Hazard 1 Fire Hazard 1 Reactivity 0 Personal Protection E	Flammability Reactivity Specific hazard	
WHMIS (Canada) (Pictograms)			
DSCL (Europe) (Pictograms)			
TDG (Canada) (Pictograms)			
Continued on Ne	xt Page		

Polymeury	ethacrylate		Page Number: 6
ADR (Europe) (Pictograms)			
Protective Equip	nent	Gloves.	
		Lab coat.	
		Dust respirator. Be approved/certified re equivalent.	
	$\nabla \sigma$	Safety glasses.	
Section 16. Otl	her Information		
MSDS Code	P1913X		
	Not available.		
References		ents in orthopedic surger	in acrylic resin polymer. It is used as an ingredient in adhesives, to fix y, for its molding properties in dentistry, in intraocular implants, in on following bone debridement, and as membranes for hemodialysis.
Other Special	•	ted beads for implantation	
Other Special Considerations	antibiotic-impregnat	ed beads for implantation	Verified by Sonia Owen. Printed 9/14/2011.
Other Special Considerations Validated by Sonia Ov	antibiotic-impregnat	ed beads for implantation	Verified by Sonia Owen.
References Other Special Considerations Validated by Sonia Ov CALL (310) 516-8000 Notice to Reader	antibiotic-impregnat	ed beads for implantation	Verified by Sonia Owen.