



Address: Cra. 53 N° 50-09
Guarne (Antioquia) COLOMBIA
Phone: (574) 550 00 00
Fax: (574) 551 31 34

MATERIAL SAFETY DATA SHEET
ACRYLIC HEAT POLYMERIZED VERACRIL®/OPTI-CRYL®, EZ-CRYL®, GOODFIT®
DPDDFS-026

1 IDENTIFICATION OF PRODUCT

- 1.1 Chemical Name: Poly (methylmethacrylate).
- 1.2 Generic Name: Poly (methylmethacrylate).
- 1.3 Synonyms: PMMA, Acrylic Resin.
- 1.4 Recommended use and product's restrictions for use: the product is intended for dental use in the preparation of dental prosthetics.
- 1.5 Emergency phone number: in case of emergency contact the coordination of Safety and Health at the Workplace (57 4) 403 87 60, ext. 1304, 1306

2 HAZARD IDENTIFICATION

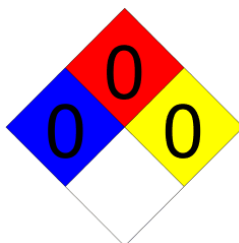
2.1 GHS Classification

Health	Environment	Physical
N.A.	N.A.	N.A.

2.2 GHS labelling:

Sign	Warning word	Hazard indication
N.A.	N.A.	N.A.

- 2.3 Precaution indications: According to available data, the product is not a hazardous material.
- 2.4 Emergency Appearance: Fine powder odorless, dispersed in the air is irritating to the eyes.
- 2.5 Potential adverse health effects: Low oral toxicity dispersed in the air can cause eye irritation, cases of skin irritation is not known, no adverse evidence.NFPA:



3 COMPOSITION INFORMATION

HARMFUL COMPONENTS		
Common name	Common name	Common name



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None	N.A	N.A
NON HARMFUL COMPONENTS		
Common name	Common name	Common name
Polymethyl methacrylate	90-99%	9011-14-7

4 FIRST AID MEASURES

- 4.1 Emergency procedures and first aid after:
- Inhalation: Take out the patient from the exposure area and move him/her to a ventilated place. If any harmful effect appears, call the doctor.
 - Eye Contact: Wash immediately the patient's eyes with plenty of water while keeping patient's eyelids completely open. See the ophthalmologist.
 - Skin Contact: Wash immediately the skin with plenty of water. Take off contaminated clothing. In case of appearance of any symptom (such as irritation or blisters), see the doctor.
 - Swallowing: See the doctor.
- 4.2 Major symptoms/effects (acute and/or delayed): There are not more relevant data available.
- 4.3 Antidote: Not applicable.
- 4.4 Information for doctors: Not applicable.

5 FIRE FIGHTING MEASURES

- 5.1 Flammability of Product: This is a low-flammable product.
- 5.2 Extinction of Fire: Fire can be extinguished using spray water, foam, dry powder, or CO2
- 5.3 Instructions for fire extinguishing: Use special protective equipment. In long stays in the contaminated area, use an autonomous breathing equipment and adequate protective clothing. This product breaks down if heated at temperatures higher than 200°C. The breaking down of this product caused by combustion or overheating can produce irritant and flammable toxic vapors.





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6 ACCIDENTAL RELEASE MEASURES

- 6.1 Techniques, procedures, materials and protective equipment in case of:
- Small spill: Spilled powder is slippery underfoot. If spilled, use gloves to pick it up and put it in a container for its later disposal or recuperation.
 - Large spill: Sweep away the spilled product and put it in a waste drum or in a plastic bag. Wash the slippery area with water. Avoid the spilled product to penetrate drainage channels. Uncontrolled throwing of waste of this product into waterways must be communicated to competent authorities. Use autonomous breathing apparatus and butyl rubber protective gloves.
- 6.2 Environmental precautions: Avoid penetration of channeling / Surface water / groundwater.
- 6.3 Further considerations: There is not special considerations

7 HANDLING AND STORAGE OF PRODUCT

- 7.1 Handling: do not put this product in contact with hot materials to avoid firing. All polymers degrade somehow if overheated. Avoid eye contact. Avoid long-term skin contact. Avoid inhalation of high concentrations of this powder. Please follow fire fighting measures shown above. This product must be kept away from fire sources.
- 7.2 Storage: Storage this product at room temperature, in a cool area. Containers of this product must always be well sealed. Acrylic resin is delivered in specially packaged drums and bottles. Always keep product containers in a clean and cool area, protected from heat or fire sources.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1 How to control exposure to this product: Use a mask to protect yourself from powder. Also use safety glasses, and adequate face protection.
- 8.2 Engineering controls: There are not any additional data.
- 8.3 Individual protective equipment: Use adequate protective equipment. In case of high levels of exposure, use an adequate mask to protect yourself from powder. Safety glasses and a total-protection face screen. Use adequate protective clothing. General safety and hygienic measures. Wash your hands after using this product.





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- 8.4 Exposure parameters:
PEL (OSHA): Total powder 5 mg/mm³, 8 Hr, TWA, breathable powder.
TLV ACGIH: Not available.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance (physical state, form, colour, etc.): Fine powder in the form of beads, color according to pigmentation.
- Odor: odorless
- Odor threshold: not applicable
- pH: Not applicable
- Vapour pressure: Not applicable
- Vapor density: Not applicable.
- Evaporation speed: Not applicable
- Saturated vapor concentration: Not applicable
- Freezing or merger: (specify which) is not determined.
- Boiling point: Not applicable.
- Solubility in water: Insoluble.
- Solubility in other solvents: Soluble in acetone.
- Specific gravity or density: 1,25g/cm³.
- Bulk density: is not determined.
- Particle size: 75 micrometers.
- Volatile organic compounds content: 0%.
- Percent Volatile: <1%.
- Softening point: No having determined.
- Flash point or explosivity limit 300°C (572 °F).
- Self-ignition temperatura: not applicable
- Decomposition temperatura: Not determined
- Viscosity: It is not determined.
- Partition coefficient octanol/water: It is not determined.
- Molecular weight: 800.000
- Molecular formula: (C₅O₂H₈)_n
- Other: Not applicable.

10 STABILITY AND REACTIVITY OF THIS PRODUCT



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- 10.1 Chemical Stability: This product is very stable. When it is overheated or in presence of a catalyst, a new polymerization process may start again.
- 10.2 Possibility of hazardous reactions: No hazardous reactions are known
- 10.3 Conditions to Avoid: Incompatibility with Peroxide or Azo polymer initiators, strong acids, alkalis, and oxidizing agents; also with bases, acids, and flammable solvents.

- 10.4 Incompatibility with other materials: Methyl methacrylate
- 10.5 Dangerous Breaking down Products: Monomer Vapors.
- 10.6 Dangerous Polymerization: Exothermic reactions (that produce heat)

11 TOXICOLOGICAL INFORMATION

- 11.1 Possible ways of exposure: No additional data are available
- 11.2 Acute Toxicity: Inhalation: Health risks after inhalation of this product are not known. High concentrations of this powder can irritate the respiratory tract. High concentrations of vapors originated from overheating can irritate the respiratory tract. Skin Contact: Cases of skin irritation caused by contact with this product are not known. If swallowed: This product has low oral toxicity, but if swallowed, it can irritate the gastrointestinal tract.
- 11.3 Chronic Toxicity: Long-term exposure: This product has been used during many years without any evidence of adverse effects. According to different studies, there is no reason to think that Polymethyl Methacrylate represents a carcinogenic or mutagenic risk for people. Long-term exposures do not produce either toxic effects on embryos or fetus or teratogenic effects on pregnant mothers.
- 11.4 Otra información: el producto no produce ningún efecto perjudicial para la salud cuando se maneja adecuadamente y se emplea para el uso previsto. El producto no requiere etiquetaje conforme a la última versión de los Listados de la CE.

12 ECOLOGICAL INFORMATION



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- 12.1 Ecotoxicity: low toxicity for fish.
- 12.2 Persistence and degradability: the product is non-biodegradable in ground. There is no evidence of degradation in ground and water.
- 12.3 Bioaccumulation potential: the product is hardly removed in biological treatment processes.
- 12.4 Ground mobility: low movility.
- 12.5 Other adverse effects: There is not additional information.

13 DISPOSAL CONSIDERATIONS

Recycle if possible. Do not throw to water sources. Observe the local regulations in force.

WARNING: Laws, regulations and local restrictions can change or be reinterpreted from one country to another and also, they can be different from the ones being into effect in Colombia. This is why considerations about waste disposal of product and its packing may differ from the ones appearing in this document!

14 TRANSPORT INFORMATION

- 14.1 Dangerous material: None
- 14.2 Type of Risk: None
- 14.3 UN Number: Not available
- 14.4 Classification IATA: Non-dangerous material
- 14.5 Packing group: not applicable.
- 14.6 Marine pollutant (yes/no): No.

15 INFORMATION ABOUT REGULATIONS INTO EFFECT

- 15.1 In Colombia: Transportation of this product must be made according to provisions of Decree 1609 of 2002 concerning road transportation of chemical and dangerous substances.
- 15.2 International Regulations: This product must be labeled according to directives of the EEC/Regulations on dangerous substances.

16 IMPORTANT ADDITIONAL INFORMATION



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The present document is drafted in accordance with the Globally Harmonized System of Classification and Labeling of Chemicals – GHS.



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