



MATERIAL SAFETY DATA SHEET DENTURE BASE ACRYLIC POLYMER

1. IDENTIFICATION

- 1.1 Chemical Name: Poly(Methylmethacrylate).
- 1.2 Common Name: Poly(Methylmethacrylate).
- 1.3 Synonymous: PMMA, Acrylic Resin.
- 1.4 Type: Self-curing and Heat-curing.
- 1.5 Trademark: Premium.

2. COMPOSITION INFORMATION

- 2.1 Dangerous Components: None.
- 2.2 Non-dangerous Components: Poly(Methylmethacrylate) Copolymer.

3. HAZARDS IDENTIFICATION

- 3.1 Material Characteristics: Fine powder, odorless.
- 3.2 Appearance in case of emergency: Fine powder, odorless, dispersed in the air is irritating in the eyes.
- 3.3 Health potential side effects: Low oral toxicity, dispersed in the air can cause irritation in the eyes, no skin irritation cases are known, no evidence of side effects.

4. FIRST AID MEASURES

- 4.1 Emergency procedures and first aid in case of:

- Inhalation: Remove patient from exposition, keep patient to a ventilated place. Medical attention is required if some effect appears.
- Eye contact: Wash eye with water immediately with eyelid held open. Medical attention is required immediately.
- Skin Contact: Wash skin with water immediately. Take off contaminated clothes. Medical attention is required in case of symptom (irritation or blisters).
- Ingestion: Medical attention is required.

- 4.2 Antidote: Not apply.

- 4.3 Information for doctors: Not apply.

5. FIRE FIGHTING MEASURES

- 5.1 Inflammability Properties: Not much inflammable.
- 5.2 Extinction Mechanisms: Fire can be extinguished with Spray Water, foam, dry power or CO₂.
- 5.3 Instructions to fight the fire: Use special protective equipment. In case of permanence in the risk area use independent breathing equipment and adequate protective clothing. Can be decomposed if is warmed to temperatures above 200 °C. Decomposition of combustion or thermal can develop toxic steam, irritating and inflammable.

6. ACCIDENTAL SPILLS MEASURES

- 6.1 Techniques, procedures and materials in case of:

- Small Spills: Spilled powder can be slippery. For its elimination or recovery can be transferred manually to a container, using gloves.
- Big Spills: Sweep and dispose in containers of waste or plastic bags. Wash slippery area with water.

Avoid that they enter in the drains. Uncontrolled discharge in water source should be informed to the competent authority. 6.2 Other Considerations: Avoid that the waste enter on aquiferous running superficial or underground.

7. HANDLING AND STORAGE OF PRODUCT

7.1 Handling: Be careful not to put product in contact with hot materials to avoid fire. All polymers decompose in some degree if overheated. Avoid eye contact. Avoid prolonged skin contact. Avoid inhalation of highly concentrations of powder. Observe measures against fire. The product must be away from ignition sources.

7.2 Storage: Store a room temperature, in dry place. Keep the product cover.

7.3 Additional Information: Denture Base Acrylic Resin is supplied in specially packed drums and pots. Keep container in a clean and cool place, away from heat sources.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Conditions to control the exposure: Use powder mask, security glasses and facial protection.

8.2 Personal protective equipment:

- Respiratory equipment: Use adequate protective equipment. If exposure levels are high it is recommended use powder mask.
- Eyes protection: Security glasses and total protection facial screen.
- Others: Use adequate protective clothe. General Safety and Hygiene Measures: Wash hands after use.

8.3 Exposure Parameters:

- PEL(OSHA): Total powder 5 mg/m³, 8 Hr. TWA, breathable powder.
- TLVACGIH: Non-available.

9. PHYSICAL AND CHEMICAL PROPERTIES OF PRODUCT

- % Volatiles: = < 1%.
- Water Solubility: Negligible.
- Odor: Odorless.
- Shape: Pearls.
- Flash Point: 300°C (572 °F).

10. STABILITY AND REACTIVITY

10.1 Chemical Stability: Very stable. Prolonged heating or the presence of a catalyst can begin again a polymerization.

10.2 Conditions to avoid: Incompatibility with peroxi or azo, strong acids, alkalis and oxidizing agents with bases, acids and inflammable solvents.

10.3 Incompatibility with others materials: Monomer.

10.4 Dangerous Decomposition Products: Monomer steam.

10.5 Dangerous Curing: Exothermic reaction (heat generation).

11. TOXICOLOGYCAL INFORMATION

11.1 Acute Toxicity: Inhalation: Risk by inhalation are not know. High powder concentration can be irritating for respiratory routes. High steam concentration by operations of heating can cause irritation in the respiratory routes. Skin contact: Cases of irritation are unknown. Ingestion: Low oral toxicity, but ingestion may induce irritation in gastrointestinal tract.

11.2 Chronic Toxicity: Long term exposure. This material has been use by many years without evidence of

side effects. According studies there is any reason to think that Poly(methylmetacrylate) represents risk carcinogenic or mutagenic for human. To high exposures does not induce toxic effects on fetus or embryo, neither theratogenous effects in presence of maternal toxicity.

12. ECOLOGICAL INFORMATION

12.1 Distribution and environmental disposition: Solid with low volatility. Water insoluble Product. Low potential of bioaccumulation. Low mobility on ground.

12.2 Persistence and degradation: This product is non-biodegradable on ground. There is not evidence of degradation on ground and water.

12.3 Toxicity: Low toxicity for aquatic organisms.

12.4 Effluent treatment Effect: Product is hardly removed by biological reactions.

13. DISPOSAL CONSIDERATIONS

Recycle if it is possible. Do not throw to water source. Observes the applicable local regulations.

WARNING: The local laws, regulations and restrictions can change or renew, and these can differ from the national ones, for this reason the material and its packing disposal considerations can change according to the information attached in this document.

14. TRANSPORT INFORMATION

14.1 Dangerous Material: None.

14.2 Class of Risk: None.

14.3 Number UN: Not available.

14.4 Classification IATA: Non-dangerous material.

15. REGULATORY INFORMATION

15.1 International: Labeled according directives EEC's regulations about dangerous substances.

16. OTHER IMPORTANT INFORMATION

Information contained here, is based on our present knowledge. Any responsibility by the inadequate use of the product is not assumed.



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