Material Safety Data Sheet

SECTION 1 - Chemical Product and Company Identification

Identity: Heat Cure powder pink

Company Information:

Dental Products of India…a division of
The Bombay Burmah Trading Corporation , Ltd.
Rudrapur.

SECTION 2 - Composition, Information on Ingredients

PolymethylMethacrylate suspended in water or as a dry powder.

SECTION 3 - Physical/Chemical Characteristics

Glass Transition Temp 105ºC

Density 1.19g/cc **Solubility in Water** Emulsion

Appearance and Odor Fine powder

Specific gravity – 1.18

SECTION 4 - Fire and Explosion Hazard Data

Extinguishing Media
Water Fog

Special Firefighting Procedures
N/A

Unusual fire and Explosion Hazards
The dried resin is flammable similar to wood. Burning dry resin emits dense, White smoke.
Suspended material is not flammable.

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. EXPOSURE CONTROLS AND PERSONAL PROTECTION

6.1 Conditions to control the exposure: Use powder mask, security glasses and facial protection.
6.2 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.
6.3 Exposure Parameters:
PEL(OSHA): Total powder 5 mg/m3
, 8 Hr. TWA, breathable powder.
TLV ACGIH: Non-available.

SECTION 7 - Reactivity Data

Incompatibilities
May irreversably aggregate if frozen at 0ºC / 32ºF. Dried resin is combustible. Addition of chemicals may cause coagulation.

Hazardous Combustion or Decomposition Products
Hazardous decomposition products: methyl methacrylate and carbon monoxide depending on condition of heating and burning.

7. STABILITY AND REACTIVITY

7.1 Chemical Stability: Very stable. Prolonged heating or the presence of a catalyst can begin again a
polymerization.
7.2 Conditions to avoid: Incompatibility with peroxi or azo, strong acids, alkalis and oxidizing agents with
bases, acids and inflammable solvents.
7.3 Incompatibility with others materials: Monomer.
7.4 Dangerous Decomposition Products: Monomer steam.
7.5 Dangerous Curing: Exothermic reaction (heat generation).

SECTION 8 - Health Hazard Data

Hazards Identification

Eyes: Mild irritation
Skin Contact: Short exposure; no irritation. Repeated prolonged exposure, especially if confined; mild irritation, possibly a mild superficial burn.
Skin Absorption: Not likely to be absorbed in toxic amounts. Possibly weak sensitizer.
Ingestion: Low single dose toxicity.
Inhalation: No guide established. Considered to be low in hazard from inhalation.
Systemic and Other Effects: None known.

3. HAZARDS IDENTIFICATION

- Material Characteristics: Fine powder, odorless.
- Appearance in case of emergency: Fine powder, odorless, dispersed in the air is irritating in the eyes.
- 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.

First Aid Measures

Eyes: Flushing the eye immediately with water for 15 minutes is a good safety practice. Physician should stain for evidence of corneal injury.
Skin: Contact may cause slight irritation. Wash off in flowing water or shower. Wash clothing before reuse. Treat as any contact dermatitis. If burn is present, treat as any thermal burn. Ingestion: Low in toxicity. Induce vomiting if large amounts are ingested.
Inhalation: Remove to fresh air if effects occur. Consult medical personnel.
Systemic: Human effects not established. No specific antidote. Treatment based on sound judgement of physician and the individual reactions of the patient.

9. FIRST AID MEASURES

- 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.

- Antidote: Not apply.
- Information for doctors: Not apply.

SECTION 10 - Precautions for Safe Handling and Use

Handling and Storage

Ventiliation: Good room ventilation usually adequate for most operations.
Respiratory protection: None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH approved dust respirator.
Storage: Store at temperatures between 25ºC and 37ºC. Material may develop bacteria odor on long term storage. No safety problems known. Do not freeze.

HANDLING AND STORAGE OF PRODUCT

- 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.

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

Accidental Release Measures

Action to take for spills: Flush area with water immediately. Avoid unnecessary exposure and contact.

ACCIDENTAL SPILLS MEASURES

- 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.

- Other Considerations: Avoid that the waste enter on aquiferous running superficial or underground.

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. ECOLOGYCAL 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.

SECTION VII - Continued

Disposal Considerations

Will color streams and rivers to a milky white. Has practically no biological oxygen demand but will settle out and form sludge or film. May plug up sanitary sewers. Divert to pond or burn solid waste in an adequate incinerator. Flush sewers with large amounts of water.

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.

SECTION VIII - Control Measures

Respiratory Protection
None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH approved dust respirator.

Wash/Hygenic Practices
Wash with soap and water when leaving work area and before eating, smoking and using restroom facilities.

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 In Colombia: It should be transported according to stipulated by decree 1609 of 2002 on the transport of
chemical and dangerous substances by road.
15.2 International: Labeled according directives EEC's regulations about dangerous substances.

16. OTHER IMPORTANT INFORMATION

In case of emergency you can contact our Security Area to phone number (574) 550 00 00 .
Information contained herein, is based on our present knowledge. Any responsibility by the inadequate use of
the product is not assumed.

AUTHORISED SIGNATORY