Material Safety Data Sheet

SECTION 1 - Chemical Product and Company Identification

Identity : HEAT CURE TMP SHADE

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.

SECTION 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.

SECTION 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.

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.

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.

SECTION 9 - 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.

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.

Accidental Release Measures

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

SECTION 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.

SECTION 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 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 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.

SECTION 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.

SECTION 16- OTHER IMPORTANT INFORMATION

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

AUTHORIZED SIGNATORY