

# MATERIAL SAFETY DATA SHEET

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## Section 1. Chemical Product and Company Identification

|   |   |
|---|---|
| Product Code<br>TR1 - 25  |   |
| Product Name<br>TR-1 TRANSOPTIC MOUNTING POWDER                       |   |
| Manufacturer's Name<br>Mark V Laboratory, Inc.                        | Emergency Telephone Number<br>CHEMTREC 800-424-9300 |
| Address (Number, Street, City, State, and ZIP Code)<br>18 Kripes Road | Telephone Number For Information<br>(860) 653-7201  |
| Post Office Box 540   | Date Prepared<br>July 1, 2013                       |
| East Granby, Connecticut 06026  | Signature of Preparer (optional)                    |

## Section 2. Composition / Information on Ingredients

| Component                  | CAS Registry # | wt. % | Exposure Limits |          |
|----------------------------|----------------|-------|-----------------|----------|
|                            |                |       | ACGIH TLV       | OSHA PEL |
| Poly (Methyl Methacrylate) | 9011-14-7      | 99    | 100ppm          | 100ppm   |
|                            |                |       | 410mg/m3        | 410mg/m3 |
|                            |                |       | 8hr.TWA         | 8hr.TWA  |

## Section 3. Hazards Identification

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### EMERGENCY OVERVIEW

Solid granules. May evolve irritating fumes on processing or over heating.

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### POTENTIAL HEALTH EFFECTS:

**EYE CONTACT:** Dust may cause irritation.

**INHALATION:** Unlikely to be hazardous but dust or vapors may cause irritation.

**SKIN CONTACT:** Unlikely to cause skin irritation.

**INGESTION:** Low oral toxicity.

**CHRONIC EFFECTS / CARCINOGENICITY:** No evidence of adverse effects but adverse effects unlikely.

**TERATOLOGY (BIRTH DEFECT) INFORMATION:** No information but adverse effects unlikely.

**REPRODUCTION INFORMATION:** No information but adverse effects unlikely.

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#### Section 4. First Aid Measures

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**INHALATION:** Remove patient from exposure. Obtain medical attention if ill effect occurs.

**EYE CONTACT:** Remove particles by irrigating with eye wash solution or clean water, holding eyelids apart. Obtain medical attention.

**SKIN CONTACT:** Wash skin with soap and water.

**INGESTION:** Do not induce vomiting. Wash out mouth with water. Obtain medical attention.

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#### Section 5. Fire Fighting Measures

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**FLAMMABLE PROPERTIES:**

FLASH POINT: 300c (572f)

METHOD USED: ASTM D1929

**FLAMMABLE LIMITS**

LFL:

UFL:

**EXTINGUISHING MEDIA:** Water spray, Foam, Dry Powder, or CO2.

**FIRE & EXPLOSION HAZARDS:** Combustible but not readily ignited. May form explosive dust clouds. May decompose if heated above 200 Deg C. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors.

**FIRE FIGHTING INSTRUCTIONS:** A self-contained breathing apparatus and full protective clothing should be worn in fire conditions.

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#### Section 6. Accidental Release Measures

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**CAUTION:** Spillage may be slippery. Sweep up and shovel into waste drums or plastic bags. Wash the spillage area with water.

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#### Section 7. Handling and Storage

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Keep Containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate. Storage temperature: ambient. Avoid contact with eyes. Avoid prolonged skin contact. Avoid inhalation of high concentrations of dusts.

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**Section 8. Exposure Controls / Personal Protection**

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**ENGINEERING CONTROLS:** Store in a cool dry area. Provide adequate ventilation.**RESPIRATORY PROTECTION:** An approved dust mask is recommended.**SKIN PROTECTION:** Wear appropriate clothing if working with hot material.**EYE PROTECTION:** The use of eye protection is recommended.**EXPOSURE GUIDELINE (S):** "LUCITE" 4F and 4FD Acrylic Resins. PEL (OSHA): Particulates (Not Otherwise Classified) 15mg/m<sup>3</sup>, 8 hrs. TWA. Total dust 5mg/m<sup>3</sup>, 8 hr. TWA, respirable dust. TLV ACGIH: None established.

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**Section 9. Physical and chemical Properties**

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|                          |                           |                             |            |
|--------------------------|---------------------------|-----------------------------|------------|
| <b>APPEARANCE:</b>       | White                     | <b>PHYSICAL STATE:</b>      | Beads      |
| <b>BOILING POINT:</b>    |                           | <b>SOLUBILITY IN WATER:</b> | Negligible |
| <b>EVAPORATION RATE:</b> |                           | <b>SPECIFIC GRAVITY:</b>    |            |
| <b>FREEZING POINT:</b>   |                           | <b>VAPOR DENSITY:</b>       |            |
| <b>MELTING POINT:</b>    |                           | <b>VAPOR PRESSURE:</b>      |            |
| <b>MOLECULAR WEIGHT:</b> |                           | <b>VISCOSITY:</b>           |            |
| <b>ODOR:</b>             | Typical<br>"methacrylate" | <b>% VOLATILE:</b>          | <1%        |
| <b>pH:</b>               |                           |                             |            |

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**Section 10. Stability and Reactivity**

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**CHEMICAL STABILITY:****INCOMPATIBILITY:** None known**HAZARDOUS DECOMPOSITION PRODUCTS:** Methyl methacrylate.**HAZARDOUS POLYMERIZATION:** Will not occur.

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**Section 11. Toxicological Information**

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**EYE:** Dust may cause irritation.**SKIN:** Unlikely to cause skin irritation.**INGESTION:** Low oral toxicity.**INHALATION:** Unlikely to be hazardous. High concentrations of dust may irritate upper respiratory tract. High concentrations of vapor may be harmful causing irritation to respiratory tract and slight narcotic effects.

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**SUBCHRONIC:** This material has been in use for many years with no evidence of adverse effects.

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## Section 12. Ecological Information

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**ENVIRONMENTAL FATE and DISTRIBUTION:** High tonnage material produced in partially Contained systems. Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

**PERSISTENCE and DEGRADATION:** The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

**TOXICITY:** The product is predicted to have low toxicity to aquatic organisms.

**EFFECT on EFFLUENT TREATMENT:** The product is anticipated to be poorly removed in biological treatment processes.

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## Section 13. Disposal Considerations

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Waste is considered to be non-hazardous. May be disposed of by landfill in accordance with local, state and federal regulations.

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## Section 14. Transport Information (Not meant to be all inclusive)

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|                                 |        |
|---------------------------------|--------|
| <b>D.O.T. SHIPPING NAME:</b>    | N/A    |
| <b>TECHNICAL SHIPPING NAME:</b> | N/A    |
| <b>D.O.T. HAZARD CLASS:</b>     | N/A    |
| <b>U.N. / N.A. NUMBER:</b>      | N/A    |
| <b>PRODUCT RQ (LBS):</b>        | N/A    |
| <b>D.O.T. LABEL:</b>            | N/A    |
| <b>D.O.T. PLACARD:</b>          | N/A    |
| <b>FREIGHT CLASS BULK:</b>      | N/A    |
| <b>FREIGHT CLASS PACKAGE:</b>   | N/A    |
| <b>PRODUCT LABEL:</b>           | TR1,25 |

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**Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)**

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**OSHA STATUS:** Yes

**TSCA STATUS:** No

**CERCLA REPORTABLE QUANTITY:** None

**SARA TITLE III:**

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES:** No

**SECTION 311/312 HAZARDOUS CATEGORIES:** No

**SECTION 313 TOXIC CHEMICALS:** No

**RCRA STATUS:** To be determined by user

**CALIFORNIA PROPOSITION 65:** No

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**Section 16. Other Information**

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**MSDS STATUS:**

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