



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: RS-200-CK Cement (Grip Cement Liquid)

April 14, 2010

Vishay Measurements Group, Inc.
Post Office Box 27777
Raleigh, NC 27611

919-365-3800

CHEMTREC 1-800-424-9300 (U.S.)
703-527-3887 (Outside U.S.)

NOTE: CHEMTREC numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS NUMBER	CHEMICAL IDENTITY	%
80-62-6	Methylmethacrylate	99.0
99-97-8	Dimethyl-P-Toluidine	1.0
123-31-9	Hydroquinone	Trace

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

Inhalation: Yes **Skin:** Yes **Ingestion:** Accidental

Health Hazards (Acute and Chronic): Prolonged or repeated exposure can cause allergic skin reaction. Prolonged or repeated exposure to methylmethacrylate at near lethal concentrations can cause kidney or liver damage.

Carcinogenicity:
NTP: Not listed
IARC Monographs: Not listed
OSHA Regulated: Not listed

Signs and Symptoms of Exposure:

INHALATION: Inhalation of vapor or mist can cause irritation of the nose and throat. Repeated or prolonged exposure can cause headache, nausea, drowsiness, or unconsciousness.

EYE CONTACT: Material can cause slight irritation.

SKIN CONTACT: Material can cause moderate skin irritation. Repeated or prolonged skin contact can cause skin sensitization.

INGESTION: Material is possibly harmful if swallowed.

Conditions Generally Aggravated by Exposure: Open sores and wounds of the skin. Susceptible persons with known allergies to methacrylates and acrylates may develop allergic response.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES
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INHALATION: Move exposed individual to fresh air. Give artificial respiration if breathing has stopped. Get prompt medical attention.

EYE CONTACT: Flush with water for fifteen minutes. If irritation persists, see a physician.

SKIN CONTACT: Wash with soap and water. See a physician if irritation persists.

INGESTION: If swallowed and the victim is conscious, give 2 glasses of water to drink. Consult a physician immediately.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA
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Flash Point (Method Used): 48°F (9°C) Setaflash Closed Cup

Flammable limits: LEL: 2.1 UEL: 12.5

Extinguishing Media: Water spray, carbon dioxide, foam, dry chemical.

Special Firefighting Procedures: Avoid eye contact, do not breathe the fumes. Water may be ineffective unless used as a fine spray or fog. Firefighters should wear full protective clothing including a self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Vapors may travel to the source of ignition and flash back. Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Avoid ignition sources. Fight advanced fires from a protected location.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Eliminate ignition sources. Avoid breathing vapors. Dike and absorb spill with inert material. Transfer to containers for disposal. Use non-sparking tools.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: None required if airborne concentrations are maintained below TLV.

Ventilation:

Local Exhaust: Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

Mechanical: Mechanical ventilation should have explosion-proof motors.

Special: NA

Other: NA

Protective Gloves: Chemical resistant gloves recommended.

Eye Protection: Goggles recommended.

Other Protective Clothing or Equipment: An eye wash and emergency shower should be available in the work area. Impervious apron and overshoes should be worn during cleanup operations.

Work / Hygienic Practices: Use good industrial hygiene practices. Wash hands with soap and water after use and before eating, drinking, or smoking. Clean contaminated clothing thoroughly before reuse.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store out of sunlight in a cool place. Maximum storage temperature is 100°F (38°C). Normal storage is at room temperature. Store away from food and beverages.

Other Precautions: Observe normal warehouse handling procedures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	214°F (101°C)
Vapor Pressure (mmHg):	29
Vapor Density (Air = 1):	3.5
Specific Gravity (H₂O = 1):	0.94
Melting Point:	-54°F (-48°C)
Evaporation Rate (BuAc = 1):	>1
Volatile Organic Compounds:	None
Solubility in Water:	Slightly soluble

Appearance and Odor: Water white liquid with strong acid acrylic odor.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: Elevated temperatures over 122°F (50°C) and direct sunlight.

Incompatibility (Materials to Avoid): Acids, bases, oxidizers, reducers, amines, and UV light. Material is a strong solvent and can soften paints, certain plastics and rubbers.

Hazardous Decomposition or By-products: Decomposes with heat. Acrid fumes and carbon monoxide or carbon dioxide.

Hazardous Polymerization: May occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Methylmethacrylate

OSHA PEL: 50 ppm
 ACGIH TLV: 50 ppm
 OTHER: NA

Dimethyl-P-Toluidine

OSHA PEL: 2 mg/m³
 ACGIH TLV: 2 mg/m³
 OTHER: Not established

Hydroquinone

OSHA PEL: 2 mg/m³ TWA
 ACGIH TLV: 2 mg/m³ TWA
 OTHER: NA

SECTION 12: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate under controlled conditions in a safe open area or landfill. Follow all chemical pollution control regulations.

SECTION 13: TRANSPORTATION INFORMATION

SHIPPING NAME	CLASS	PACKING GROUP	UN NUMBER
Methyl Methacrylate Monomer, Inhibited Flammable Liquid	3	II	1247

SECTION 14: REGULATORY INFORMATION**SECTION 313 SUPPLIER NOTIFICATION:**

This product contains a toxic chemical or chemicals (as listed below) subject to the reporting requirements of Section 313 Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
80-62-6	Methylmethacrylate	99.0
123-31-9	Hydroquinone	Trace

TSCA NOTIFICATION:

All components of this product are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA).

SECTION 15: OTHER INFORMATION

To the best of our knowledge, the information provided above meets the requirements of the United States Occupational Safety and Health Act and regulations established under 29 CFR 1910.1200 (g)(2)(c)(1)-(4) for a mixture of hazardous chemicals which has not been tested as a whole. The data provided on this Material Safety Data Sheet is from manufacturers of the original components. Micro-Measurements specifically disclaims any and all form of liability and/or responsibility for the application of this product.