



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: QA-500 Part B

April 13, 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	%
552-30-7	Trimellitic Anhydride	100

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

Inhalation: Yes Skin: Yes Ingestion: Accidental

Health Hazards (Acute and Chronic): Exposure to this material may cause adverse effects or damage to the following organs or organ systems: skin, eyes, respiratory tract, mucous membranes, lungs and blood.

Carcinogenicity:

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

Signs and Symptoms of Exposure:

INHALATION: Trimellitic Anhydride (TMA) is a respiratory sensitizer. In susceptible individuals (those that have developed antibodies to TMA) repeated inhalation of dust or vapor may result in an immediate onset of asthma-like symptoms (coughing, sneezing, tightness in chest and wheezing) or delayed respiratory effects.

QA-500 Part B MSDS (Continued)

EYE CONTACT: Causes severe eye irritation with tearing, redness and a slight burning feeling. May cause corneal damage. Can injure eye tissue. Effects may become more serious with prolonged exposure.

SKIN CONTACT: Contact may cause reddening, itching and inflammation. Skin contact may cause harmful effects in other parts of the body.

INGESTION: Swallowing this material may be harmful. May cause irritation of the mouth, throat and gastrointestinal tract. Symptoms may include salivation, pain, nausea, vomiting and diarrhea.

Conditions Generally Aggravated by Exposure: Pre-existing medical conditions which may be aggravated by exposure include disorders of the respiratory tract, asthma and atopy (multiple allergies).

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep affected person warm and at rest. Get medical attention immediately.

EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention immediately.

SKIN CONTACT: Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

INGESTION: Do NOT induce vomiting because of danger of aspirating liquid into lungs causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

NOTE TO PHYSICIAN: Acute asthmatic reactions to TMA should be treated like acute asthma from any cause. If the patient is cyanotic or acutely dyspneic, consider supplemental oxygen and systemic corticosteroids. The primary treatment for the late onset respiratory systemic syndrome (TMA Flu) is systemic corticosteroids plus antipyretics and bronchodilators as needed.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 440°F (227°C) TAG Closed Cup

Flammable limits: LEL: 1% UEL: 7%

Extinguishing Media: For small fires, use dry chemical powder. For large fires, use water spray, fog, or foam. Do not use water jet.

Special Firefighting Procedures: May be combustible at high temperature. Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Fine dust clouds may form explosive mixtures with air. Handling of this product may generate static electricity, which can present an ignition hazard in some cases. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: If emergency personnel are unavailable, vacuum spilled material. Use a vacuum equipped with a High Efficiency Particulate Aerosol (HEPA) filter. Avoid creating dusty conditions and prevent wind dispersal. Minimize contact of spilled materials with soils to prevent run off to surface waterways.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Use only with adequate ventilation. Avoid breathing dust. If concentration exceeds recommended exposure levels, and ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. If concentration is unknown, a self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne concentrations below the exposure limit.

Protective Gloves: Avoid contact with skin. Wear suitable gloves.

Eye Protection: Do not get in eyes. Wear chemical/dust goggles and faceshield.

Other Protective Clothing or Equipment: Avoid contact with skin. Wear suitable protective clothing.

Work / Hygienic Practices: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of the day.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Take precautionary measures against static discharges.

Other Precautions: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not eat, drink or smoke in areas of use or storage.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
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Boiling Point:	734°F (390°C)
Vapor Pressure (mmHg):	Unknown
Vapor Density (Air = 1):	6.6
Specific Gravity (H₂O = 1):	1.54
Melting Point:	329°F (165°C)
Evaporation Rate (BuAc = 1):	Unknown
Volatile Organic Compounds:	None
Solubility in Water:	Moderately soluble after hydrolysis to acid

Appearance and Odor: White musty smelling solid.

SECTION 10: STABILITY AND REACTIVITY DATA
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Stability: Stable.

Conditions to Avoid: Avoid exposure to moisture or moist air. Avoid creating dust when handling and avoid all possible sources of ignition (spark or flame).

Incompatibility (Materials to Avoid): Reactive with oxidizing agents, acids, alkalis, moisture. Contact with water will produce the corresponding acid.

Hazardous Decomposition or By-products: Carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION
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Trimellitic Anhydride

OSHA PEL:	Not listed
ACGIH TLV:	0.0005 mg/m ³ (IFV) 8-Hour TWA
OTHER:	<0.002 mg/m ³ (IFV) 15-Min STEL

SECTION 12: DISPOSAL CONSIDERATIONS
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Waste Disposal Method: Dispose of in accordance with local, state, and federal environmental regulations.

SECTION 13: TRANSPORTATION INFORMATION

Not classified as hazardous for transportation.

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
Not listed		

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.