



MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Gagekote 7 Part B

November 28, 2005

Vishay Micro-Measurements
Post Office Box 27777
Raleigh, NC 27611

MSDS # MGM075A

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	%
Proprietary	Non-hazardous and other ingredients below reportable levels	75.8
4246-51-9	Aliphatic Amine	18.2
90-72-5	Tris-2,4,6-(Dimethylaminomethyl) Phenol	3.0
111-40-0	Diethylenetriamine	3.0

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

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

Health Hazards (Acute and Chronic): Repeated exposure to Aliphatic Amine may cause injury to the respiratory tract.

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

Signs and Symptoms of Exposure:

INHALATION: Inhalation of vapors may cause irritation in the respiratory tract. Coughing and chest pain may result.

EYE CONTACT: Liquid may cause pain on contact, with excess blinking and discharge. There may be moderately severe conjunctivitis seen as excess redness and swelling of the conjunctiva. Corneal damage may occur. Permanent impairment of vision may result if splashes are not promptly treated. Corneal edema may give rise to a perception of "blue haze" or "fog" around lights.

SKIN CONTACT: Prolonged or repeated contact may cause irritation. May be harmful if absorbed through skin. Contact may cause severe irritation with pain and burns.

INGESTION: May cause nausea, vomiting, pain, and stomach upset (e.g. diarrhea). Exposure can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract. Ingestion may cause bleeding of the gastrointestinal tract and the vomiting of blood.

Conditions Generally Aggravated by Exposure: Eye disease, skin disorders and allergies.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move patient to fresh air. If breathing has stopped or is labored, give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Prevent aspiration of vomit. Turn victim's head to the side. Assure mucus does not obstruct airway. Call a physician.

EYE CONTACT: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN CONTACT: Remove product and immediately flush affected areas with water for at least 15 minutes. Call a physician. Except in the most minor, superficial and localized burns, cover the affected area with a sterile dressing or clean sheeting and transport for medical care. Do not apply greases or ointments. Control shock, if present.

INGESTION: In the event of ingestion, administer 3-4 glasses of milk or water. Do NOT induce vomiting. Obtain medical care and hospital treatment immediately.

NOTE TO PHYSICIAN: This product contains 3% Tris-2,4,6-(Dimethylaminomethyl) phenol which is highly injurious to all tissues, similar to that of ammonia or ammonia gas. Chemical pneumonitis, pulmonary edema, laryngeal edema and delayed scarring of the airway or other affected tissues may occur following exposure. There is no specific treatment, which is similar to that for thermal burns.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): >200°F (93.3°C)

Flammable limits: LEL: 1% UEL: 5%

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, halon, water spray or foam. For large fires, use water spray, fog or alcohol foam.

Special Firefighting Procedures: Firefighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Safely stop discharges. Contain material, as necessary, with a dike or barrier. Stop material from contaminating soil, or from entering sewers or bodies of water. Cover spill with absorbent clay or sawdust and place in closed chemical waste containers for proper disposal.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Industrial hygiene consultation is recommended because airborne exposure level vary depending on the nature of the operation performed. Respiratory protection is not usually required.

Ventilation: Local exhaust ventilation is recommended when vapors, mists, or dusts can be released.

Protective Gloves: Wear appropriate impervious gloves. Consult glove manufacturer to determine proper type for a specific operation.

Eye Protection: Wear chemical splash goggles or safety glasses with side shields.

Other Protective Clothing or Equipment: An eyewash facility should be readily available.

Work / Hygienic Practices: Wash thoroughly after handling, especially before eating, drinking, smoking and using restroom facilities. Wash contaminated goggles, faceshield, and gloves. Professionally launder contaminated clothing before reuse.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store in a cool, dry, well ventilated area.

Other Precautions: Container may be hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption or where skin contact can occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	295°F (146.1°C)
Vapor Pressure (mmHg):	<0.01
Vapor Density (Air = 1):	7.3
Specific Gravity (H₂O = 1):	1.27
Melting Point:	1.09
Evaporation Rate (BuAc = 1):	<1
Volatile Organic Compounds:	<1%
Solubility in Water:	Insoluble

Appearance and Odor: Amber liquid, mercaptan odor.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under normal conditions of use.

Conditions to Avoid: Open flame, sparks, or high temperature.

Incompatibility (Materials to Avoid): Oxidizers, acids.

Hazardous Decomposition or By-products: Carbon monoxide in a fire. Ammonia when heated. Nitrogen oxides in a fire. Irritating and toxic fumes at elevated temperatures.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Aliphatic Amine

OSHA PEL:	Not determined
ACGIH TLV:	Not determined
OTHER:	Not determined

Tris-2,4,6-Z(Dimethylaminomethyl)Phenol

OSHA PEL:	Not established
ACGIH TLV:	Not established
OTHER:	Not established

Diethylenetriamine

OSIER PEL: 1 ppm
 ACGIH TLV: 1 ppm (SKIN)
 OTHER: ORAL (RAT) LD₅₀ 2.33 g/kg
 DERMAL (RABBIT) 1.09 ml
 INHALATION (RAT) LD₅₀ >300 ppm/8H

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

SHIPPING NAME	CLASS	PACKING GROUP	UN NUMBER
Toxic Liquid, Organic, N.O.S. (Dimethylaminomethyl)	6.1	III	2810

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
None 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. Vishay Micro-Measurements specifically disclaims any and all form of liability and/or responsibility for the application of this product.