



# MATERIAL SAFETY DATA SHEET



## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** Gagekote 5 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	%
28064-14-4	Epoxy Resin, Novalac Type	50-60
26142-30-3	Polymer of Epichlorohydrin-polyglycol	23-33

NOTE: Balance of product components are non-hazardous.

## SECTION 3: HEALTH HAZARD DATA

### Routes of Entry:

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

**Health Hazards (Acute and Chronic):** Except for skin sensitization, repeated exposures are not likely to cause any significant adverse effects.

**Carcinogenicity:**      NTP:                      See Note  
                                 IARC Monographs:      See Note  
                                 OSHA Regulated:        See Note

NOTE: IARC has concluded that the raw material (Reaction of Epichlorohydrin and Bishpenol A) is not classifiable as to its carcinogenicity. None of the raw materials used in this product are listed by OSHA, NTP, IARC, or ACGIH to cause cancer.

**Signs and Symptoms of Exposure:**

**INHALATION:** Not expected to be a problem. Tetrahydrofurfuryl alcohol component could cause respiratory irritation if available in sufficient quantities.

**EYE CONTACT:** May cause slight temporary eye irritation.

**SKIN CONTACT:** A single prolonged exposure is not likely to cause skin irritation. Has caused allergic skin reaction in humans with repeated exposure.

**INGESTION:** None listed.

**Conditions Generally Aggravated by Exposure:** None known.

**SECTION 4: EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** Move to fresh air. Aid in breathing if necessary.

**EYE CONTACT:** Immediately rinse eyes with running water for at least 15 minutes.

**SKIN CONTACT:** Remove contaminated clothing. Launder clothing before reuse. Wash skin promptly with soap and water.

**INGESTION:** Drink 1-2 glasses of water or milk. Induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

**SECTION 5: FIRE AND EXPLOSION HAZARD DATA**

**Flash Point (Method Used):** 310°F (154.4°C) PMCC

**Flammable limits:** LEL: Unknown UEL: Unknown

**Extinguishing Media:** Foam, carbon dioxide, dry chemical.

**Special Firefighting Procedures:** Full emergency equipment with self-contained breathing apparatus and full protective clothing (turn out gear) should be worn by firefighters.

**Unusual Fire and Explosion Hazards:** Burning of this material will result in the release of toxic fumes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Steps to be taken if material is released or spilled:** Evacuate non-essential personnel. Remove all sources of ignition and ventilate the area. Dike or impound spilled material and control further spillage if feasible. Absorb on inert carrier. Sweep, scrape or vacuum up. Shovel into secure container for proper disposal. Clean surfaces with soap and water.

## SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

**Respiratory Protection:** No respirator should be needed. In some situations a respirator may be necessary in addition to ventilation. The use of a NIOSH-certified or MSHA approved respirator for organic vapors is recommended when the level of vapors exceed the TLV or when the level is unknown.

**Ventilation:** Ventilation requirements are generally not necessary for handling this product. Local exhaust is recommended if product is handled warm or sprayed.

**Protective Gloves:** Wear impervious gloves. Neoprene, polyvinyl chloride or nitrile gloves are recommended for most handling operations.

**Eye Protection:** Safety glasses, splash goggles or faceshield. Contact lenses should not be worn.

**Other Protective Clothing or Equipment:** As needed to prevent skin contact. Safety showers and eyewash stations should be available.

**Work / Hygienic Practices:** Use good industrial hygiene practices. Wash hands thoroughly after using and before eating, drinking or smoking.

## SECTION 8: HANDLING AND STORAGE

**Precautions to be taken in handling and storing:** Store in tightly sealed containers, in a dry area away from sources of heat.

**Other Precautions:** None known.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	Not determined
<b>Vapor Pressure (mmHg):</b>	LT 1 mmHg @ 68°F (20°C)
<b>Vapor Density (Air = 1):</b>	Not determined
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.23
<b>Melting Point:</b>	Not determined
<b>Evaporation Rate (BuAc = 1):</b>	Unknown
<b>Volatile Organic Compounds:</b>	0% voc (100% solids system)
<b>Solubility in Water:</b>	Very slight

**Appearance and Odor:** Green, thixotropic paste, slight odor.

## SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** Stable.

**Conditions to Avoid:** Heat, flame, sources of ignition.

Gagekote 5 Part B MSDS (Continued)

**Incompatibility (Materials to Avoid):** Aluminum, zinc, strong oxidizers, water, alcohols, amines, strong bases, metal compounds, and surface active materials.

**Hazardous Decomposition or By-products:** Oxides of carbon and nitrogen under burning conditions.

**Hazardous Polymerization:** Will not occur.

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>
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Epoxy Resin Novolac

OSHA PEL:	Unknown
ACGIH TLV:	Unknown
OTHER:	Unknown

Polymer of Epichlorohydrin-polyglycol

OSHA PEL:	Unknown
ACGIH TLV:	Unknown
OTHER:	Unknown

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

<b>SECTION 13: TRANSPORTATION INFORMATION</b>
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SHIPPING NAME	CLASS	PACKING GROUP	UN NUMBER
Chemical Kit*	9	II	3316

\*When shipped as a kit containing Gagekote 5 Parts A & B.

<b>SECTION 14: REGULATORY INFORMATION</b>
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**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		

**TSCA NOTIFICATION:**

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

<b>SECTION 15: OTHER INFORMATION</b>
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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.