MATERIAL SAFETY DATA SHEET

Company Name: 3M COMPANY

Address: 10330 PIONEER BL SUITE 280
City / State / Zip: SANTA FE SPRINGS / CA / 90670

 US-CHEMTREC Phone(I):
 (800)424-9300

 US-CHEMTREC Phone(II):
 (703)527-3887

 CAN-CANUTEC Phone:
 (613)996-6666

 Vendor Update:
 9/11/2012

 Date Prepared:
 9/11/2012

MSDS Number: 3M4622112; 3M462412; 491012; 491014; 491034;

49451; 494512; 49452; 494534;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: VHB TAPE

HMIS Ratings: NFPA Ratings:

Health: Moderate(2) Flammability: Slight(1)

Instability/Reactivity: Minimal(0)
Personal Protective Equipment: NONE

Other: EMERGENCY OVERVIEW: SPECIFIC PHYSICAL FORM: PASTE

ODOR, COLOR, GRADE: SLIGHT ACRYLATE ODOR, TOOTH COLORED

GENERAL PHYSICAL FORM: SOLID

IMMEDIATE HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS: MAY CAUSE ALLERGIC SKIN REACTION. THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE U.S. OSHA HAZARD COMMUNICATION STANDARD, WHICH REQUIRES THE INCLUSION OF ALL KNOWN HAZARDS OF THE

PRODUCT OR INGREDIENTS REGARDLESS OF THE POTENTIAL RISK. THE RISKS

OF THE HAZARDS COMMUNICATED IN THIS DOCUMENT MAY VARY

DEPENDING ON THE POTENTIAL FOR EXPOSURE.

II. COMPOSITION, INFORMATION ON INGREDIENTS												
Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50					
SILANE TREATED CERAMIC	444758-98-9	60 - 80										
Notes		•			•		- I					
SILANE TREATED SILICA	248596-91-0	1- 10										
Notes		•			•		- I					
DIURETHANE DIMETHACRYLATE (UDMA)	72869-86-4	1- 10										
Notes				•								
BISPHENOL A POLYETHYLENE GLYCOL DIETHER DIMETHACRYLATE	41637-38-1	1- 10										
Notes		•	•	•		-	•					
BISHPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA)	1565-94-2	1- 10										
Notes				•								
SILANE TREATED ZIRCONIA	UNKNOWN	1- 10										
Notes		- I	1		1							
POLYETHYLENE GLYCOL DIMETHACRYLATE	25852-47-5											
Notes		-	•	•	•	•						
TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)	109-16-0											

Notes					
2,6 DI-TERT-BUTYL-P-CRESOL(BHT)	128-37-0	INHALABLE FRACTION AND VAPOR 2 MG/M³	10 MG/M ³		
Notes					

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: MILD EYE IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE REDNESS, PAIN, AND

TEARING.

Skin: MILD SKIN REACTION: SIGNS/SYMPTOMS MAY INCLUDE LOCALIZED

REDNESS, SWELLING, AND ITCHING.

ALLERGIC SKIN REACTION (NON-PHOTO INDUCED): SIGNS/SYMPTOMS MAY

INCLUDE REDNESS, SWELLING, BLISTERING, AND ITCHING.

Ingestion: GASTROINTESTINAL IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE

ABDOMINAL PAIN, STOMACH UPSET, NAUSEA, VOMITING AND DIARRHEA.

Inhalation: RESPIRATORY TRACT IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE COUGH,

SNEEZING, NASAL DISCHARGE, HEADACHE, HOARSENESS, AND NOSE AND

THROAT PAIN.

IV. FIRST AID MEASURES

Eyes: FLUSH EYES WITH LARGE AMOUNTS OF WATER. IF SIGNS/SYMPTOMS

PERSIST, GET MEDICAL ATTENTION.

Skin: REMOVE CONTAMINATED CLOTHING AND SHOES. IMMEDIATELY FLUSH SKIN

WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. WASH

CONTAMINATED CLOTHING AND CLEAN SHOES BEFORE USE.

Ingestion: IF SWALLOWED: DO NOT INDUCE VOMITING UNLESS INSTRUCTED TO DO SO

BY MEDICAL PERSONNEL. GIVE VICTIM TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL

ATTENTION.

Inhalation: REMOVE PERSON TO FRESH AIR. IF SIGNS/SYMPTOMS DEVELOP, GET

MEDICAL ATTENTION.

V. FIRE FIGHTING MEASURES

Flash Point: NOT APPLICABLE

Lower Flammability Limit: NOT APPLICABLE

Upper Flammability Limit: NOT APPLICABLE

Extinguishing Agents: ORDINARY COMBUSTIBLE MATERIAL. USE FIRE EXTINGUISHERS WITH CLASS

A EXTINGUISHING AGENTS (E.G. WATER, FOAM).

Unusual Fire or Explosion NO UNUSUAL FIRE OR EXPLOSION HAZARDS ARE ANTICIPATED.

Hazards:

Fire Fighting Procedures: WEAR FULL PROTECTIVE EQUIPMENT (BUNKER GEAR) AND A

SELF-CONTAINED BREATHING APPARATUS (SCBA).

Other: AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: VENTILATE THE AREA WITH FRESH AIR. FOR LARGE SPILL, OR SPILLS IN

CONFINED SPACES, PROVIDE MECHANICAL VENTILATION TO DISPERSE OR EXHAUST VAPORS, IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE PRACTICE. WARNING! A MOTOR COULD BE A IGNITION SOURCE AND COULD CAUSE FLAMMABLE GASES OR VAPORS IN THE SPILL AREA TO BURN OR

EXPLODE.

COLLECT AS MUCH OF THE SPILLED MATERIAL AS POSSIBLE. CLEAN UP

RESIDUE.

VII. HANDLING AND STORAGE

Other: HANDLING:

AVOID EYE CONTACT. AVOID SKIN CONTACT. A NO-TOUCH TECHNIQUE IS RECOMMENDED. IF SKIN CONTACT OCCURS, WASH SKIN WITH SOAP AND WATER. ACRYLATES MAY PENETRATE COMMONLY-USED GLOVES. IF PRODUCT CONTACTS GLOVE, REMOVE AND DISCARD GLOVE, WASH HANDS IMMEDIATELY WITH SOAP AND WATER AND THE RE-GLOVE. WASH HANDS

AFTER HANDLING AND BEFORE EATING.

STORAGE:

STORE IN A COOL, DRY PLACE.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: AVOID EYE CONTACT.

THE FOLLOWING EYE PROTECTION(S) ARE RECOMMENDED: SAFETY GLASSES

WITH SIDE SHIELDS.

Skin: AVOID SKIN CONTACT.

Respiratory: UNDER NORMAL USE CONDITIONS, AIRBORNE EXPOSURES ARE NOT

EXPECTED TO BE SIGNIFICANT ENOUGH TO REQUIRE RESPIRATORY

PROTECTION.

Engineering: NOT APPLICABLE.

Other: PREVENTION OF SWALLOWING: DO NOT INGEST. WASH HANDS AFTER

HANDLING AND BEFORE EATING.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: TOOTH COLORED

Boiling Point: NOT APPLICABLE

pH: NOT APPLICABLE

Solubility in Water: NO DATA AVAILABLE

Specific Gravity: 1.9 [REF STD: WATER=1]

Vapor Pressure:NOT APPLICABLEVapor Density:NOT APPLICABLE

Physical State: PASTE; GENERAL PHYSICAL FORM: SOLID

Other: DENSITY: 1.9 G/CM³

MELTING POINT: NO DATA AVAILABLE EVAPORATION RATE: NOT APPLICABLE

KOW- OCT/WATER PARTITION COEF: NOT APPLICABLE

VISCOSITY: NO DATA AVAILABLE.

X. STABILITY AND REACTIVITY

Stability: STABLE.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

Hazardous Polymerization:

Hazardous Decomposition SUBSTANCE/CONDITION

Products: CARBON MONOXIDE/DURING COMBUSTION CARBON DIOXIDE/DURING COMBUSTION.

Incompatible Products: STRONG OXIDIZING AGENTS.

Conditions To Avoid: HEAT.

XI. TOXICOLOGICAL INFORMATION

XII. ECOLOGICAL INFORMATION

Environmental Fate and

NOT DETERMINED.

Distribution:

XIII. DISPOSAL CONSIDERATIONS

DISPOSE OF COMPLETELY CURED (OR POLYMERIZED) WASTES IN A SANITARY

LANDFILL. AS A DISPOSAL ALTERNATIVE, INCINERATE UNCURED PRODUCT IN AN INDUSTRIAL OR COMMERCIAL INCINERATOR IN THE PRESENCE OF A

COMBUSTIBLE MATERIAL.

RCRA Class: NOT REGULATED

XIV. TRANSPORT INFORMATION

Other: ID NUMBER(S):

 $70-2010-5874-3, 70-2010-5875-0, 70-2010-5876-8, 70-2010-5877-6, \\70-2010-5878-4, 70-2010-5879-2, 70-2010-5880-0, 70-2010-5881-8, \\70-2010-5882-6, 70-2010-5883-4, 70-2010-5884-2, 70-2010-5885-9, \\70-2010-5886-7, 70-2010-5887-5, 70-2010-5888-3, 70-2010-5889-1, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5892-5, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5891-7, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5891-7, 70-2010-5893-3, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5891-7, 70-2010-5891-7, \\70-2010-5890-9, 70-2010-5891-7, 70-2010-5$

70-2010-5783-6, 70-2010-5867-7, 70-2010-5868-5, 70-2010-5869-3, 70-2010-5870-1, 70-2010-5871-9, 70-2010-5872-7, 70-2010-5873-5,

70-2010-5894-1, 70-2010-5895-8, 70-2010-5896-6, 70-2010-5897-4, 70-2010-5898-2, 70-2010-5899-0, 70-2010-5900-6, 70-2010-5901-4,

70-2010-5904-8, 70-2010-5905-5, 70-2010-5906-3, 70-2010-5907-1, 70-2010-5908-9, 70-2010-5909-7, 70-2010-5910-5, 70-2010-5911-3,

70–2010–5912–1, 70–2010–5913–9, 70–2010–5914–7, 70–2010–5915–4,

70–2010–5916–2, 70–2010–5917–0, 70–2010–5918–8, 70–2010–5919–6, 70–2010–5920–4, 70–2010–5921–2, 70–2010–5922–0, 70–2010–5923–8,

70–2010–5924–6, 70–2010–5925–3, 70–2010–5926–1, 70–2010–5927–9,

70–2010–5928–7, 70–2010–5929–5, 70–2010–5930–3, 70–2010–5931–1,

70 - 2010 - 5932 - 9, 70 - 2010 - 5933 - 7, 70 - 2010 - 5934 - 5, 70 - 2010 - 5935 - 2,

70-2010-5936-0, 70-2010-5937-8, 70-2010-5938-6, 70-2010-5939-4,

 $70-2010-5940-2, 70-2010-7627-3, 70-2010-7628-1, 70-2010-7629-9, \\70-2010-7630-7, 70-2010-7631-5, 70-2010-7632-3, 70-2010-7633-1, \\$

70 - 2010 - 7634 - 9, 70 - 2010 - 7635 - 6, 70 - 2010 - 7636 - 4, 70 - 2010 - 7637 - 2,

70-2010-7638-0, 70-2010-7639-8, 70-2010-7640-6, 70-2010-7641-4, 70-2010-7642-2, 70-2010-7643-0, 70-2010-7644-8, 70-2010-7645-5,

70–2010–7646–3, 70–2010–7647–1, 70–2010–7648–9, 70–2010–7649–7,

70-2010-7650-5, 70-2010-7651-3, 70-2010-7652-1, 70-2010-7653-9, 70-2010-7654-7, 70-2010-7655-4, 70-2010-7656-2, 70-2010-7657-0,

70 - 2010 - 7658 - 8, 70 - 2010 - 7659 - 6, 70 - 2010 - 7660 - 4, 70 - 2010 - 7661 - 2,

70-2010-7662-0, 70-2010-7663-8, 70-2010-7664-6, 70-2010-7668-7, 70-2010-7669-5, 70-2010-7670-3, 70-2010-7671-1, 70-2010-7672-9,

70 - 2010 - 7673 - 7, 70 - 2010 - 7674 - 5, 70 - 2010 - 7675 - 2, 70 - 2010 - 7676 - 0,

70-2010-7677-8, 70-2010-7678-6, 70-2010-7679-4, 70-2010-7680-2, 70-2010-7681-0, 70-2010-7682-8, 70-2010-7683-6, 70-2010-7684-4,

 $70-2010-7685-1, 70-2010-7686-9, 70-2010-7687-7, 70-2010-7688-5, \\ 70-2010-7689-3, 70-2010-7690-1, 70-2010-7691-9, 70-2010-7692-7, \\ 70-2010-7693-5, 70-2010-7694-3, 70-2010-7695-0, 70-2010-7696-8, \\ 70-2010-7697-6, 70-2010-7698-4, 70-2010-7699-2, 70-2010-7700-8, \\ 70-2010-7701-6, 70-2010-7702-4, 70-2010-7703-2, 70-2010-7704-0$

XV. REGULATORY INFORMATION

THIS MATERIAL CONTAINS ONE OR MORE SUBSTANCES NOT LISTED ON THE

TSCA INVENTORY. COMMERCIAL USE OF THIS MATERIAL IS REGULATED BY

THE FDA.

EPA Sara Title III Chemical 311/312 HAZARD CATEGORIES:

Listings: FIRE HAZARD – NO

PRESSURE HAZARD – NO REACTIVITY HAZARD – NO IMMEDIATE HAZARD – YES DELAYED HAZARD – NO

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER

THEY ARE APPROPRIATE.