

# WM2000A-A Acrylic Adhesive

## Part Nos.: WM2000A-A400 thru WM2000A-A3900

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# Material Safety Data Sheet

Printing date 07.27.2006 Reviewed on 07.27.2006

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	PermaGrip Adhesive, Part A	<b>Item No.:</b>	83674
<b>Product Type:</b>	Acrylics	<b>Region:</b>	United States / Canada
<b>Company address:</b>	WrapMaster, Inc. 2701 State Highway 322 Longview, Texas 75603 Tel: (903) 643-8080 Fax: (903) 643-8181	<b>Contact Information:</b>	Emergency: Chem-Tel (800) 255-3924 Other Calls: Chem-Tel (877) 486-1122

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Methyl methacrylate 80-62-6	30-60	100 ppm STEL 50 ppm TWA	100 ppm TWA 410 mg/m <sup>3</sup> TWA	50 ppm
Polyethylene based rubber Proprietary	10-30	None	None	None
Hydroxyalkyl methacrylate 868-77-9	10-30	None	None	3 ppm (ceiling)
2,6-Di-t-butyl-p-cresol 128-37-0	1-5	2 mg/m <sup>3</sup> TWA inhalable fraction and vapor	None	None
Methacrylic acid 79-41-4	1-5	20 ppm TWA	None	None
Talc 14807-96-6	0.1-1	2 mg/m <sup>3</sup> TWA respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica	= 20 mppcf TWA	50 ppm

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Paste	<b>HMIS:</b>	
<b>Color:</b>	Blue Opaque	<b>HEALTH:</b>	2*
<b>Odor:</b>	Sharp	<b>FLAMMABILITY:</b>	3
		<b>PHYSICAL HAZARD:</b>	1
<b>WARNING:</b>	<b>FLAMMABLE LIQUID AND VAPOR. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF SWALLOWED. MAY CAUSE ALLERGIC SKIN REACTION.</b>	<b>Personal Protection:</b>	See Section 8

**Relevant routes of exposure:** Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects

**Inhalation:** Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.  
**Skin contact:** Irritating to skin. May cause allergic skin reaction.  
**Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation.  
**Ingestion:** May be harmful if swallowed. Ingestion causes irritation and effects similar to inhalation.  
**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If symptoms develop and persist, get medical attention.  
**Skin contact:** Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.  
**Eye contact:** Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.  
**Ingestion:** Do not induce vomiting. Keep individual calm. Obtain medical attention.

### 5. FIRE- FIGHTING MEASURES

<b>Flash point:</b>	14°C (58°F)	Setaflash Closed cup
<b>Autoignition temperature:</b>	Not available	
<b>Flammable/Explosive limits-lower %:</b>	Not available	
<b>Flammable/Explosive limits-upper %:</b>	Not available	
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.	
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.	
<b>Unusual fire or explosion hazards:</b>	Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.	
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Hydrogen cyanide. Hydrogen chloride. Acids. Aldehydes. Alcohols. Toxic fumes. Acrid smoke and fumes. Irritating organic vapors.	

### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters.
<b>Clean-up methods:</b>	Remove all ignition sources. Ensure adequate ventilation. Soak up with inert absorbent. Store in a closed container until ready for disposal.

### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Make sure containers are properly grounded before use or transfer of material.
<b>Storage:</b>	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. For safe storage, store at or below 32°C (90°F).
<b>Incompatible products:</b>	Refer to Section 10.

For information on product shelf life contact WrapMaster, Inc. at (903) 643-8080

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
<b>Respiratory protection:</b>	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
<b>Skin protection:</b>	Chemical resistant, impermeable gloves. Nitrile gloves.
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields.

**See Section 2 for exposure limits.**

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Paste
<b>Color:</b>	Blue Opaque
<b>Odor:</b>	Sharp
<b>Vapor pressure:</b>	28 mmHg @20°C (68° F)
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Greater than 38°C (100°F)
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	1.03
<b>Vapor density:</b>	Greater than 1
<b>Evaporation rate:</b>	Faster than ether
<b>Solubility in water:</b>	Slight
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	Not available

**10. STABILITY AND REACTIVITY**

**Stability:** Stable.  
**Hazardous polymerization:** May occur.  
**Hazardous decomposition products:** Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Hydrogen cyanide. Hydrogen chloride. Acids. Aldehydes. Alcohols. Carbon tetrachloride. Styrene. Acrolein. Acetophenone. Ethylbenzene. Cumene. 4-Vinyl cyclohexene. Phenols. Irritating organic vapors. Toxic fumes. Smoke.  
**Incompatibility:** Oxidizing agents. Reducing agents. Acids. Bases.  
**Conditions to avoid:** See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10). Do not mix in batches greater than 100 grams (0.220 pounds) unless you plan to use immediately.

**11. TOXICOLOGICAL INFORMATION**

<b>Carcinogen Status</b>			
<b>Hazardous components</b>	<b>NTP Carcinogen</b>	<b>IARC Carcinogen</b>	<b>OSHA Carcinogen</b>
Methyl methacrylate 80-62-6	No	No	No
Polyethylene based rubber Proprietary	No	No	No
Hydroxyalkyl methacrylate 868-77-9	No	No	No
2,6-Di-t-butyl-p-cresol 128-37-0	No	No	No
Methacrylic acid 79-41-4	No	No	No
Talc 14807-96-6	No	No	No

<b>Literature Referenced Target Organ &amp; Other Health Effects</b>	
<b>Hazardous components</b>	<b>Health Effects/Target Organs</b>
Methyl methacrylate 80-62-6	Allergen, Irritant, Kidney, Liver, Nervous System, Respiratory, Mutagen
Polyethylene based rubber Proprietary	No Target Organs
Hydroxyalkyl methacrylate 868-77-9	Allergen, Irritant
2,6-Di-t-butyl-p-cresol 128-37-0	Mutagen, Irritant
Methacrylic acid 79-41-4	Allergen, Corrosive, Irritant
Talc 14807-96-6	Some evidence of carcinogenicity, Lung, Irritant

**12. ECOLOGICAL INFORMATION**

**Ecological information:** Not available

**13. DISPOSAL CONSIDERATIONS**

**Recommended method of disposal:** Information provided is for unused product only.  
Dispose of according to Federal, State and local governmental regulations.  
**EPA hazardous waste number:** D001: Ignitable.

**14. TRANSPORTATION INFORMATION**

**Department of Transportation Ground (49 CFR):**

**Proper shipping name:** Adhesives  
**Hazard class or division:** 3  
**Identification number:** UN 1133  
**Packing group:** II  
**Exceptions:** Consumer Commodity ORM-D (Not more than 5 L)  
**Marine pollutant:** None

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Adhesives  
**Hazard class or division:** 3  
**Identification number:** UN 1133  
**Packing group:** II

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** Adhesives  
**Hazard class or division:** 3  
**Identification number:** UN 1133  
**Packing group:** II  
**Marine pollutant:** None

**15. REGULATORY INFORMATION**

**United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12 (b) Export Notification:** 4-Methoxyphenol (150-76-5).

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus.  
**CERCLA/SARA Section 31 1/312:** Immediate Health Hazard, Delayed Health Hazard, Fire  
**CERCLA/SARA 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Methyl Methacrylate (CAS# 80-62-6).

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.  
**WHMIS hazard class:** B.2, D.2.A, D.2.B

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: 14

**Prepared for:** WrapMaster, Inc.  
2701 State Highway 322  
Longview, Texas 75603 (903) 643-8080  
**Prepared by:** Elvin C. Loyd, Vice President

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# WM2000A-B Adhesive Activator

Part No.: WM2000A-B (Subcomponents of AKD-400 thru AKC3900)

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# Material Safety Data Sheet

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	PermaGrip Adhesive, Part B	<b>Item No.:</b>	83046
<b>Product Type:</b>	Adhesives, Activator	<b>Region:</b>	United States / Canada
<b>Company address:</b>	WrapMaster, Inc. 2701 State Highway 322 Longview, Texas 75603 Tel: (903) 643-8080 Fax: (903) 643-8181	<b>Contact Information:</b>	Emergency: Chem-Tel (800) 255-3924 Other Calls: Chem-Tel (877) 486-1122

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Aldehyde-amine condensate Proprietary	10-30	None	None	None
Methyl methacrylate 80-62-6	60-100	100 ppm STEL 50 ppm TWA	100 ppm TWA 410 mg/m <sup>3</sup> TWA	50 ppm

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Paste	<b>HMIS:</b>	
<b>Color:</b>	Yellow Opaque	<b>HEALTH:</b>	2*
<b>Odor:</b>	Sharp	<b>FLAMMABILITY:</b>	3
		<b>PHYSICAL HAZARD:</b>	1
<b>WARNING:</b>	<b>FLAMMABLE LIQUID AND VAPOR. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF SWALLOWED. MAY CAUSE ALLERGIC SKIN REACTION.</b>	<b>Personal Protection:</b>	See Section 8

**Relevant routes of exposure:** Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects

<b>Inhalation:</b>	Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.
<b>Skin contact:</b>	Irritating to skin. May cause allergic skin reaction.
<b>Eye contact:</b>	Vapors may irritate eyes. Contact with eyes will cause irritation.
<b>Ingestion:</b>	May be harmful if swallowed. Ingestion causes irritation and effects similar to inhalation.
<b>Existing conditions aggravated by exposure:</b>	Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

## 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
<b>Eye contact:</b>	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Keep individual calm. Obtain medical attention.

## 5. FIRE- FIGHTING MEASURES

<b>Flash point:</b>	14°C (58°F)	Setaflash Closed cup
<b>Autoignition temperature:</b>	Not available	
<b>Flammable/Explosive limits-lower %:</b>	Not available	
<b>Flammable/Explosive limits-upper %:</b>	Not available	
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.	
<b>Special fire fighting procedures:</b>	None	
<b>Unusual fire or explosion hazards:</b>	Vapors may accumulate in low or confined areas, travel considerable distance to source of	

# WM2000A-B Adhesive Activator

Part No.: WM2000A-B (Subcomponents of AKD-400 thru AKC3900)

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# Material Safety Data Sheet

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**Hazardous combustion products:** ignition, and flash back.  
Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Aldehydes. Ketones. Toxic fumes. Acrid smoke and fumes. Irritating organic vapors.

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Prevent product from entering drains or open waters.  
**Clean-up methods:** Remove all ignition sources. Ensure adequate ventilation. Soak up with inert absorbent. Store in a closed container until ready for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Make sure containers are properly grounded before use or transfer of material.  
**Storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. For safe storage, store at or below 32°C (90°F).  
**Incompatible products:** Refer to Section 10.

For information on product shelf life contact WrapMaster, Inc. at (903) 643-8080

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.  
**Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s).  
**Skin protection:** Chemical resistant, impermeable gloves. Nitrile gloves.  
**Eye/face protection:** Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Paste  
**Color:** Yellow Opaque  
**Odor:** Sharp  
**Vapor pressure:** 28 mmHg @20°C (68° F)  
**pH:** Not applicable  
**Boiling point/range:** Greater than 38°C (100°F)  
**Melting point/range:** Not available  
**Specific gravity:** 0.96  
**Vapor density:** Greater than 1  
**Evaporation rate:** Faster than ether  
**Solubility in water:** Slight  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** 2.60%; 26.0 grams/liter (Adhesive and Activator mixed)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.  
**Hazardous polymerization:** May occur.  
**Hazardous decomposition products:** Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Aldehydes. Styrene. Acrolein. Acetophenone. Ethylbenzene. Cumene. 4-Vinyl cyclohexene. Phenols. Ketones. Irritating organic vapors. Toxic fumes. Smoke.  
**Incompatibility:** Oxidizing agents. Reducing agents. Acids. Bases.  
**Conditions to avoid:** See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10). Do not mix in batches greater than 100 grams (0.220 pounds) unless you plan to use immediately.

# WM2000A-B Adhesive Activator

Part No.: WM2000A-B (Subcomponents of AKD-400 thru AKC3900)

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## 11. TOXICOLOGICAL INFORMATION

<b>Carcinogen Status</b>			
<b>Hazardous components</b>	<b>NTP Carcinogen</b>	<b>IARC Carcinogen</b>	<b>OSHA Carcinogen</b>
Aldehyde-amine condensate Proprietary	No	No	No
Methyl methacrylate 80-62-6	No	No	No

<b>Literature Referenced Target Organ &amp; Other Health Effects</b>	
<b>Hazardous components</b>	<b>Health Effects/Target Organs</b>
Aldehyde-amine condensate Proprietary	No data
Methyl methacrylate 80-62-6	Allergen, Irritant, Kidney, Liver, Nervous System, Respiratory, Mutagen

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 13. DISPOSAL CONSIDERATIONS

**Information provided is for unused product only.**  
**Recommended method of disposal:** Dispose of according to Federal, State and local governmental regulations.  
**EPA hazardous waste number:** D001: Ignitable.

## 14. TRANSPORTATION INFORMATION

### Department of Transportation Ground (49 CFR):

**Proper shipping name:** Adhesives  
**Hazard class or division:** 3  
**Identification number:** UN 1133  
**Packing group:** II  
**Exceptions:** Consumer Commodity ORM-D (Not more than 5 L)  
**Marine pollutant:** None

### International Air Transportation (ICAO/IATA):

**Proper shipping name:** Adhesives  
**Hazard class or division:** 3  
**Identification number:** UN 1133  
**Packing group:** II  
**Exceptions:** May Qualify as Consumer Commodity ID8000 (Not more than 500 ml)

### WaterTransportation (IMO/IMDG):

**Proper shipping name:** Adhesives  
**Hazard class or division:** 3  
**Identification number:** UN 1133  
**Packing group:** II  
**Marine pollutant:** None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

# WM2000A-B Adhesive Activator

# Material Safety Data Sheet

Part No.: WM2000A-B (Subcomponents of AKD-400 thru AKC3900)

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**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12 (b) Export Notification:** 4-Methoxyphenol (150-76-5).

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus.  
**CERCLA/SARA Section 31 1/312:** Immediate Health Hazard, Delayed Health Hazard, Fire  
**CERCLA/SARA 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Methyl Methacrylate (CAS# 80-62-6).

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer.

## Canada Regulatory Information

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.  
**WHMIS hazard class:** B.2, D.2.B

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 14

**Prepared for:** WrapMaster, Inc.  
2701 State Highway 322  
Longview, Texas 75603 (903) 643-8080

**Prepared by:** Elvin C. Loyd, Vice President

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, WrapMaster, Inc. does not assume responsibility for any results obtained by persons over whose methods WrapMaster, Inc. has no control. It is the user's responsibility to determine the suitability of WrapMaster's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of WrapMaster's products. In light of the foregoing, WrapMaster, Inc. specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of WrapMaster's products. WrapMaster, Inc. further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

# WM2000F-A Epoxy Adhesive

Part No.: WM2000F-A (Subcomponent of FKC-500)

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# Material Safety Data Sheet

Printing date 07.27.2006 Reviewed on 07.27.2006

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	PermaPutty Part A	<b>Item No.:</b>	83206
<b>Product Type:</b>	Epoxy Adhesive Resin	<b>Region:</b>	United States / Canada
<b>Company address:</b>	WrapMaster, Inc. 2701 State Highway 322 Longview, Texas 75603 Tel: (903) 643-8080 Fax: (903) 643-8181	<b>Contact Information:</b>	Emergency: Chem-Tel (800) 255-3924 Other Calls: Chem-Tel (877) 486-1122

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Epichlorohydrin-4,4- isopropylidene diphenol resin 25068-38-6	30-60	None	None	None
Tremolite 14567-73-8	10-30	1 mg/m <sup>3</sup> TWA as Fe	= 0.1 f/cc TWA see 1910.1001	None
Antigorite 12135-86-3	10-30	None	None	None
Talc 14807-96-6	10-30	2 mg/m <sup>3</sup> TWA respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica	= 20 mppcf TWA	50 ppm
Anthophyllite 17068-78-9	1-5	None	0.1 fiber/cc TWA fibers longer than 5 µm 1.0 fiber/cc Excursion Limit 30 min. Cancer and lung disease hazard - see 29 CFR 1910.1001 - does not include non- asbestiform actinolite, tremolite or anthophyllite	None
Titanium dioxide 13463-67-7	1-5	10 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> TWA total dust	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b> Viscous liquid		<b>HMIS:</b>	
<b>Color:</b> White		<b>HEALTH:</b>	2*
<b>Odor:</b> None		<b>FLAMMABILITY:</b>	1
		<b>PHYSICAL HAZARD:</b>	1
<b>WARNING:</b>	<b>MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.</b>	<b>Personal Protection:</b>	See Section 8

**Relevant routes of exposure:** Eye contact, Ingestion, Inhalation, Skin contact

### Potential Health Effects

**Inhalation:** May cause irritation to nose and throat. Mild respiratory tract irritation. Coughing.  
**Skin contact:** Allergic skin reaction. Moderate skin irritation. Itching. Redness.  
**Eye contact:** Moderate eye irritation. Redness.  
**Ingestion:** Not expected under normal conditions of use.  
**Existing conditions aggravated by exposure:** Skin disorders. Skin allergies. Respiratory disorders. Eye disorders.

See Section 11 for additional toxicological information.

## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.  
**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

# WM2000F-A Epoxy Adhesive

Part No.: WM2000F-A (Subcomponent of FKC-500)

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# Material Safety Data Sheet

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**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get medical attention if symptoms develop and persist.

## 5. FIRE- FIGHTING MEASURES

**Flash point:** Greater than 93°C (200°F) Pinsky Martens closed cup  
**Autoignition temperature:** Not available  
**Flammable/Explosive limits-lower %:** Not available  
**Flammable/Explosive limits-upper %:** Not available  
**Extinguishing media:** Foam, dry chemical or carbon dioxide.  
**Special fire fighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.  
**Unusual fire or explosion hazards:** In the event of fire, cool tanks with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.  
**Hazardous combustion products:** Oxides of carbon. Irritating organic fragments. Acids. Aldehydes.

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Prevent product from entering drains or open waters.  
**Clean-up methods:** Remove all ignition sources. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Keep away from heat, spark and flame. Do not breathe mist or vapors. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.  
**Storage:** Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.  
**Incompatible products:** Refer to Section 10.

For information on product shelf life contact WrapMaster, Inc. at (903) 643-8080

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.  
**Respiratory protection:** Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.  
**Skin protection:** Chemical resistant, impermeable gloves.  
**Eye/face protection:** Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Viscous liquid  
**Color:** White  
**Odor:** None  
**Vapor pressure:** Nil  
**pH:** Not applicable  
**Boiling point/range:** Greater than 260°C (500°F)  
**Melting point/range:** Not available  
**Specific gravity:** 1.57  
**Vapor density:** Not available  
**Evaporation rate:** Not available  
**Solubility in water:** Insoluble  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** < 0.05% (value for resin and hardener together) (estimated)

# WM2000F-A Epoxy Adhesive

Part No.: WM2000F-A (Subcomponent of FKC-500)

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Printing date 07.27.2006 Reviewed on 07.27.2006

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.  
**Hazardous polymerization:** Will not occur.  
**Hazardous decomposition products:** None  
**Incompatibility:** Strong acids. Strong bases. Strong oxidizers. Amines. Water.  
**Conditions to avoid:** Excessive heat. Storage with incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

<b>Carcinogen Status</b>			
<b>Hazardous components</b>	<b>NTP Carcinogen</b>	<b>IARC Carcinogen</b>	<b>OSHA Carcinogen</b>
Epichlorohydrin-4,4- isopropylidene diphenol resin 25068-38-6	No	No	No
Tremolite 14567-73-8	No	Group 1	Yes
Antigorite 12135-86-3	No	No	No
Talc 14807-96-6	No	No	No
Anthophyllite 17068-78-9	Known Carcinogen	No	Yes
Titanium dioxide 13463-67-7	No	No	No

<b>Literature Referenced Target Organ &amp; Other Health Effects</b>	
<b>Hazardous components</b>	<b>Health Effects/Target Organs</b>
Epichlorohydrin-4,4- isopropylidene diphenol resin 25068-38-6	Allergen, Irritant
Tremolite 14567-73-8	Lung, Mutagen, Carcinogen
Antigorite 12135-86-3	Lung, Some evidence of carcinogenicity, Mutagen
Talc 14807-96-6	Some evidence of carcinogenicity, Lung, Irritant
Anthophyllite 17068-78-9	Carcinogen, Mutagen, Lung
Titanium dioxide 13463-67-7	Irritant, Respiratory

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

## 13. DISPOSAL CONSIDERATIONS

**Recommended method of disposal:** Information provided is for unused product only.  
Dispose of according to Federal, State and local governmental regulations.  
**EPA hazardous waste number:** Not a RCRA hazardous waste.

# WM2000F-A Epoxy Adhesive

Part No.: WM2000F-A (Subcomponent of FKC-500)

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# Material Safety Data Sheet

Printing date 07.27.2006 Reviewed on 07.27.2006

## 14. TRANSPORTATION INFORMATION

### Department of Transportation Ground (49 CFR):

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

### International Air Transportation (ICAO/IATA):

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

### Water Transportation (IMO/IMDG):

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
Marine pollutant:	None known

## 15. REGULATORY INFORMATION

### United States Regulatory Information

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12 (b) Export Notification:** None.

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus.  
**CERCLA/SARA Section 31 1/312:** Immediate Health Hazard, Delayed Health Hazard  
**CERCLA/SARA 313:** None above reporting de minimus.

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer.

### Canada Regulatory Information

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.  
**WHMIS hazard class:** D.2.B

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue

**Prepared for:** WrapMaster, Inc.  
2701 State Highway 322  
Longview, Texas 75603 (903) 643-8080

**Prepared by:** Elvin C. Loyd, Vice President

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name:</b>	PermaPutty Part B	<b>Item No.:</b>	36765
<b>Product Type:</b>	Epoxy Hardener	<b>Region:</b>	United States / Canada
<b>Company address:</b>	WrapMaster, Inc. 2701 State Highway 322 Longview, Texas 75603 Tel: (903) 643-8080 Fax: (903) 643-8181	<b>Contact Information:</b>	Emergency: Chem-Tel (800) 255-3924 Other Calls: Chem-Tel (877) 486-1122

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Silica, Quartz 14808-60-7	10-30	0.05mg/m3 TWA respirable fraction	0.1mg/m3 TWA (respirable)	None
Talc 14807-96-6	10-30	2 mg/m3 TWA respirable fraction, particulate matter containing no asbestos	= 20 mppcf TWA	50 ppm
Diethylene Triamine 111-40-0	10-30	1 ppm skin (skin)	None	None
Epoxy resin/Curing agent Proprietary	10-30	None	None	None
4,4 '- Isopropylidenediphenol 80-05-7	1-5	None	None	None
Carbon Black 1333-86-4	0.1-1	3.5 mg/m3 TWA	3.5 mg/m3 TWA	None
N-(2-Aminoethyl)piperazine 140-31-8	0.1-1	None	None	None

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**HMIS:**

<b>Physical state:</b>	Viscous liquid	<b>HEALTH:</b>	3
<b>Color:</b>	Black	<b>FLAMMABILITY:</b>	1
<b>Odor:</b>	Strong Ammoniacal	<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See Section 8

**DANGER:** CAUSES EYE AND SKIN BURNS.  
MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.  
HARMFUL IF SWALLOWED.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

**Relevant routes of exposure:** Eye, Skin, Inhalation, Ingestion

**Potential Health Effects**

**Inhalation:** May cause respiratory tract irritation. May cause irritation to nose and throat. May cause sensitization by inhalation. May cause allergic respiratory reaction. Contains crystalline silica (quartz), which is classified as a possible carcinogen. However, the crystalline silica present in this product is encapsulated in the epoxy resin and will only be liberated if the product is sanded or abraded, and even then what is liberated will not be a pure crystalline silica. Appropriate precautions, however, should be taken if the product is sanded or abraded to prevent personnel from breathing the dust.

**Skin contact:** May cause skin burns. May cause allergic skin reaction.

**Eye contact:** Possible burns to eyes. May cause corneal injury. May cause severe eye irritation.

**Ingestion:** Harmful if swallowed.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders. Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product.

See Section 11 for additional toxicological information.

**4. FIRST AID MEASURES**

<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. If irritation persists, get medical attention.
<b>Eye contact:</b>	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
<b>Ingestion:</b>	Keep individual calm. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Give a conscious person several glasses of water. Get medical attention if symptoms develop and persist.

**5. FIRE- FIGHTING MEASURES**

<b>Flash point:</b>	215°F Open cup
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits-lower %:</b>	Not available
<b>Flammable/Explosive limits-upper %:</b>	Not available
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	Firefighters should wear self contained breathing apparatus (SCBA) and full turn out gear.
<b>Unusual fire or explosion hazards:</b>	Violent steam generation may occur upon application of direct water stream.
<b>Hazardous combustion products:</b>	Oxides of carbon. Smoke. Oxides of nitrogen.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters.
<b>Clean-up methods:</b>	Immediately contact emergency personnel. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Remove all sources of ignition. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up. Store in a closed container until ready for disposal.

**7. HANDLING AND STORAGE**

<b>Handling:</b>	Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Do not taste or swallow. Keep container closed. Wash thoroughly after handling.
<b>Storage:</b>	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
<b>Incompatible products:</b>	Refer to Section 10.

For information on product shelf life contact WrapMaster, Inc. at (903) 643-8080

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Engineering controls:</b>	Use local exhaust ventilation if the potential for airborne exposure exists.
<b>Respiratory protection:</b>	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
<b>Skin protection:</b>	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.
<b>Eye/face protection:</b>	Chemical splash goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

See Section 2 for exposure limits.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state:</b>	Viscous liquid
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# WM2000F-B Epoxy Activator

Part No.: WM2000F-B (Subcomponent of FKC-500)

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**Color:** Black  
**Odor:** Strong, Ammoniacal  
**Vapor pressure:** <1 mmHg @ 20°C (68°F)  
**pH:** Not applicable  
**Boiling point/range:** 207°C (404°F)  
**Melting point/range:** Not available  
**Specific gravity:** 1.65  
**Vapor density:** 3.5  
**Evaporation rate:** Not available  
**Solubility in water:** Slight  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** Not available

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage and use.  
**Hazardous polymerization:** None under normal processing.  
**Hazardous decomposition products:** Oxides of carbon. Smoke. Oxides of nitrogen.  
**Incompatibility:** Oxidizing agents. Metals. Acids. Acrylates.  
**Conditions to avoid:** Storage with incompatible materials. Avoid temperatures above 294 °C (561 °F). Avoid mixing resin (Part A) and curing agent (Part B) in batches greater than 2 pound (.9 kg) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. The exotherm has the potential for release of toxic gasses.

## 11. TOXICOLOGICAL INFORMATION

<b>Carcinogen Status</b>			
<b>Hazardous components</b>	<b>NTP Carcinogen</b>	<b>IARC Carcinogen</b>	<b>OSHA Carcinogen</b>
Silica, Quartz 14808-60-7	Known Carcinogen	Group 1	Yes
Talc 14807-96-6	No	No	No
Diethylene Triamine 111-40-0	No	No	No
Epoxy resin Proprietary	No	No	No
4,4'-Isopropylidenediphenol 80-05-7	No	No	No
Carbon Black 1333-86-4	No	Group 2B	Yes
N-(2-Aminoethyl)piperazine 140-31-8	No	No	No

<b>Literature Referenced Target Organ &amp; Other Health Effects</b>	
<b>Hazardous components</b>	<b>Health Effects/Target Organs</b>
Silica, Quartz 14808-60-7	Some evidence of carcinogenicity, Lung, Immune system
Talc 14807-96-6	Some evidence of carcinogenicity, Lung, Irritant
Diethylene Triamine 111-40-0	Allergen, Eyes, Irritant
Epoxy resin Proprietary	No data
4,4'-Isopropylidenediphenol 80-05-7	Allergen, Blood, Irritant, Kidney, Spleen, Reproductive
Carbon Black 1333-86-4	Respiratory, Some evidence of carcinogenicity
N-(2-Aminoethyl)piperazine 140-31-8	Irritant, Corrosive, Allergen

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available

### 13. DISPOSAL CONSIDERATIONS

**Recommended method of disposal:** Dispose of according to Federal, State and local governmental regulations.  
**EPA hazardous waste number:** Not a RCRA hazardous waste.

### 14. TRANSPORTATION INFORMATION

**Department of Transportation Ground (49 CFR):**

**Proper shipping name:** Amines, Solid, Corrosive, n.o.s.  
(Diethylenetriamine)  
**Hazard class or division:** 8  
**Identification number:** UN 3259  
**Packing group:** III

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Amines, Solid, Corrosive, n.o.s.  
(Diethylenetriamine)  
**Hazard class or division:** 8  
**Identification number:** UN 3259  
**Packing group:** III

**Water Transportation (IMO/IMDG):**

**Proper shipping name:** Amines, Solid, Corrosive, n.o.s.  
(Diethylenetriamine)  
**Hazard class or division:** 8  
**Identification number:** UN 3259  
**Packing group:** III

### 15. REGULATORY INFORMATION

**United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12 (b) Export Notification:** None.

**CERCLA/SARA Section 302 EHS:** None.

**CERCLA/SARA Section 311/312:** Immediate Health Hazard, Delayed Health Hazard

**CERCLA/SARA 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). 4,4'-Isopropylidenediphenol (CAS# 80-05-7).

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.

**WHMIS hazard class:** D.2.A, D.2.B, E

# WM2000F-B Epoxy Activator

Part No.: WM2000F-B (Subcomponent of FKC-500)

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# Material Safety Data Sheet

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## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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Prepared by: Elvin C. Loyd, Vice President

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