

Material Safety Data Sheet

IDENTITY (As Used on Label and List)

Perma-Chink M-BALM (Part A)



Section I

Manufacture's Name Perma-Chink Systems, Inc.	Emergency Telephone Number: CHEMTREC 1-800-424-9300
Address (Number, Street, City, State, and ZIP code) 1605 Prosser Road	Telephone Number for Information: 865-524-7343
Knoxville, TN 37914	Date of Preparation 1/02/07
Preparer's Name Sean Gahan	Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Component (Specific Chemical Identity, Common Name(s):	CAS #	OSHA / PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Diglycidyl Ether of Bisphenol A (DGEBCPA)	25068-38-6	None	None		>70%
Alkylglycidyl Ether	68081-84-5	None	None		<30%
Benzyl Alcohol	100-51-6	None	None		<15%

Section III – Physical/Chemical Characteristics

Boiling Point: N/A	Specific Gravity (H ₂ O = 1) 1.1 – 1.3
Vapor Pressure (mm Hg.) N/A	Melting Point % Volatile (Volume)
Vapor Density (Air = 1) Heavier than air	Evaporation Rate (Water = 1) Slower than Ether
Solubility in Water Negligible	
Appearance and Odor Clear liquid with benzyl alcohol odor.	VOC (less water): None

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) > 300°F (Pensky-Martens Closed Cup)	Flammable Limitations	LEL N/A	UEL N/A
Extinguishing Media Foam, CO ₂ , Dry chemical, Water Fog.			
Special Fire Fighting Procedures When fighting fires, wear full protective equipment with self contained breathing apparatus. Water spray may be used to cool fire exposed containers. Toxic fumes may be evolved when this substance is burned.			
Unusual Fire and Explosion Hazards Pressure may build if containers are exposed to heat.			

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	✓	N/A
Incompatibility (Materials to Avoid) Strong oxidizing agents, Lewis and mineral acids.			None Known
Hazardous Decomposition or Byproducts			Oxides of carbon, aldehydes and acids.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	✓	Epoxy resins and epoxy hardeners react with each other to produce heat. They should not be mixed with each other under uncontrolled conditions or in large mass as the ensuing exotherm may result in heat and smoke and therefore hazardous decomposition products.

Section VI – Health Hazard Data

Routes of Entry Inhalation? Yes Skin? Yes Ingestion? Yes Eye Contact? Yes

Health Hazards (Acute and Chronic)

Slight irritation of skin, moderate irritation of eyes. Odor may irritate the nose, throat, and respiratory tract of some persons. May cause skin sensitization from prolonged and repeated contact.

Carcinogenicity? NO NTP? NO IARC Monographs? NO OSHA Regulated? NO

No long-term adverse effects are known.

Signs and Symptoms of Exposure: Conditions are generally aggravated with exposure.

Medical Conditions: None known

Emergency and First Aid Procedures:

Eye contact: Flush with large quantities of clean water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water or induce vomiting by giving 2 tablespoons of syrup of ipecac (1 tablespoon/glass of water for a child). If ipecac is unavailable, give two glasses of water and induce vomiting by touching finger to the back of the throat. Keep head below the hips while vomiting. Get medical attention.

Skin contact: Remove contaminated clothing and wipe excess from skin. Wash affected area with warm water and soap. Seek medical attention if irritation persists. Do not use contaminated clothing until clothes are cleaned.

Inhalation: Get fresh air and give oxygen if having trouble breathing. Give artificial respiration if breathing stops. Seek medical attention.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled

Avoid contact with the material. Persons not wearing the appropriate PPE should leave the area until the spill is cleaned up. Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank or drum. Remaining liquid can be soaked up with an inert absorbent material and shoveled into disposal containers.

Waste Disposal Method

Waste is not hazardous by RCRA Criteria (40 CFR 261). Dispose of material in accordance with all applicable Federal, State, and Local regulations.

Precautions to be taken in Handling and Storing

Read and Observe all product label instructions. Protect product from freezing. KEEP OUT OF REACH OF CHILDREN.

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Normally none is required when adequate ventilation is provided. In the absence of proper environmental control, NIOSH approved respirator is required. For emergencies, a SCBA or full faced respirator is recommended.

Ventilation : Provide adequate ventilation in work areas.
Confine material in sealed containers when not in use.

Special

Mechanical (general)

Other

Protective Gloves

Always wear impervious neoprene, vinyl or rubber gloves.

Eye Protection

Goggles or safety glasses recommended.

Other Protective Clothing or Equipment

Wear clothing to prevent skin contact.

Work/Hygenic Practices: General care and hygiene.

The information contained herein is, to the best of Perma-Chink Systems, Inc. knowledge, accurate as of the data indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assumes the risk of his use thereof.

Material Safety Data Sheet

IDENTITY (As Used on Label and List)

Perma-Chink M-BALM (Part B)



Section I

Manufacture's Name Perma-Chink Systems, Inc.	Emergency Telephone Number: CHEMTREC 1-800-424-9300
Address (Number, Street, City, State, and ZIP code) 1605 Prosser Road	Telephone Number for Information: 865-524-7343
Knoxville, TN 37914	Date of Preparation 1/02/07
Preparer's Name Sean Gahan	Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Component (Specific Chemical Identity, Common Name(s):	CAS #	OSHA / PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Modified Aliphatic Ammines (Trade Secret)	Unknown	None	None		>80%
Benzyl Alcohol	100-51-6	None	None		<15%

Section III – Physical/Chemical Characteristics

Boiling Point: N/A	Specific Gravity (H ₂ O = 1) 0.95 – 1.05
Vapor Pressure (mm Hg.) N/A	Melting Point N/A
Vapor Density (Air = 1) Heavier than air	% Volatile (Volume)
Solubility in Water Negligible	Evaporation Rate (Water = 1) Slower than Ether
Appearance and Odor Amber liquid with characteristic odor.	VOC (less water): None

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) > 250°F (Pensky-Martins Closed Cup)	Flammable Limitations	LEL N/A	UEL N/A
Extinguishing Media Foam, CO ₂ , Dry chemical, Water Fog.			
Special Fire Fighting Procedures When fighting chemical fires, wear full protective equipment with self contained breathing apparatus. Water spray may be used to cool fire exposed containers. Toxic fumes may be evolved when this substance is burned.			
Unusual Fire and Explosion Hazards Pressure may build if containers are exposed to heat.			

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	✓	Epoxy resins and epoxy hardeners react with each other to produce heat. They should not be mixed with each other under uncontrolled conditions or in large mass as the ensuing exotherm may result in heat and smoke
Incompatibility (Materials to Avoid) Strong oxidizing agents, mineral acids.	None Known		
Hazardous Decomposition or Byproducts	Oxides of carbon, nitrogen.		
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	✓	

Section VI – Health Hazard Data

Routes of Entry Inhalation? Yes Skin? Yes Ingestion? Yes Eye Contact? Yes

Health Hazards (Acute and Chronic)

May cause burns to skin and eyes. High vapor concentration can cause severe irritation to eyes and respiratory tract. Liquid causes severe damage to mucous membranes if swallowed. Prolonged and repeated skin contact may cause skin sensitization or other allergic reactions.

Carcinogenicity? NO NTP? NO IARC Monographs? NO OSHA Regulated? NO

No long-term adverse effects are known.

Signs and Symptoms of Exposure:

Medical Conditions: Conditions are generally aggravated with exposure. This material may be a strong skin sensitizer in certain susceptible persons. Once sensitized, most persons are unable to work around amine cured epoxy resins without an allergic reaction. No other health problems are known.

Emergency and First Aid Procedures:

Eye contact: Flush with large quantities of clean water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting. Give milk or water to dilute to conscious victims only. Seek medical attention.

Skin contact: Remove contaminated clothing and flood with water. Wash affected area with warm water and soap. Seek medical attention if irritation persists. Do not use contaminated clothing until clothes are cleaned.

Inhalation: Get fresh air. Seek medical attention if problem persist.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled

Avoid contact with the material. Persons not wearing the appropriate PPE should leave the area until the spill is cleaned up. Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank or drum. Remaining liquid can be soaked up with an inert absorbent material and shoveled into disposal containers.

Waste Disposal Method

Waste is not hazardous by RCRA Criteria (40 CFR 261). Dispose of material in accordance with all applicable Federal, State, and Local regulations.

Precautions to be taken in Handling and Storing

Read and Observe all product label instructions. Protect product from freezing. KEEP OUT OF REACH OF CHILDREN.

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Normally none is required when adequate ventilation is provided. In the absence of proper environmental control, NIOSH approved respirator is required. For emergencies, a SCBA or full faced respirator is recommended.

Ventilation: Provide adequate ventilation in work areas. Confine material to sealed containers when not in use.	Special
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Mechanical (general)	Other
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Protective Gloves	Eye Protection
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Always wear impervious neoprene, vinyl or rubber gloves.	Splash proof goggles or safety glasses with side shields are recommended. Always wear eye protection when sanding cured epoxy resins to avoid dust in the eyes.
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Other Protective Clothing or Equipment
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Wear clothing to prevent skin contact.
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Work/Hygenic Practices: General care and hygiene.

The information contained herein is, to the best of Perma-Chink Systems, Inc. knowledge, accurate as of the data indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assumes the risk of his use thereof.