



**PERMAROOF MB MINERAL**

Version 2.  
REVISION DATE: 06/29/2009

Print Date 07/07/2009

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : PERMAROOF MB MINERAL  
Product code : 400STDFR100

COMPANY : Republic Powdered Metals  
2628 Pearl Road  
Medina, OH 44256

Telephone : (800) 551-7081  
Emergency Phone: : 1-800-551-7081  
After Hours: Chemtrec 1-800-424-9300

Product use : Roof Sheeting

**SECTION 2 - HAZARDS IDENTIFICATION**

**Emergency Overview**

Various colors. Solid ply rolls. Not applicable under normal conditions of use. Generally not required under normal conditions of use.

**Acute Potential Health Effects/ Routes of Entry**

Inhalation : Not applicable under normal conditions of use.  
Eyes : Not applicable under normal conditions of use.  
Ingestion : Not applicable under normal conditions of use.  
Skin : May cause mild irritation.

**Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

**Chronic Health Effects**

This product contains granular materials which may cause mechanical skin, eye or respiratory irritation. Carbon black is classified by IARC to be a known animal carcinogen and a possible human carcinogen (Group 2B). The International Agency for Research on Cancer (IARC) has classified ceramic fiber, fibrous glasswool, and mineral wool (rockwool and slagwool) as possible human carcinogens (Group 2B) based on sufficient evidence of carcinogenicity in animals but insufficient data in humans. In the National Toxicology Program's (NTP) 7th Annual Report on Carcinogens (1994), respirable glasswool was classified as reasonably anticipated to be carcinogenic. Repeated and prolonged exposures to trivalent chromium compounds may cause delayed effects involving the respiratory system. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. OSHA considers fibrous glass dust a nuisance dust. Fibrous glass can cause dermatitis, local irritation.

**Target Organs:** Skin, Eye, Lung



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**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Calcium Carbonate (Limestone)	1317-65-3	30.0 - 60.0
Asphalt	8052-42-4	15.0 - 40.0
Rhyolitic argillite/roofing granules	NJTSRN# 51721300-5488P	15.0 - 40.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	10.0 - 30.0
Magnesite	546-93-0	3.0 - 7.0
Fibrous Glass	65997-17-3	1.0 - 5.0
Clay	1332-58-7	1.0 - 5.0
Carbon Black	1333-86-4	- <1.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

- Inhalation : Generally not required under normal conditions of use.
- Eye contact : Generally not required under normal conditions of use.
- Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Not applicable under normal conditions of use.
- Notes to physician : Not applicable.

**SECTION 5 - FIRE FIGHTING MEASURES**

- Flash point : Not available.
- Method : Not available.
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Hazardous combustion products : Hydrogen sulfide and hydrocarbon fractions.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Scrape up and transfer to appropriate container for disposal.



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**SECTION 7 - HANDLING AND STORAGE**

Store under normal warehouse conditions.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal protection equipment**

- Respiratory protection : Not required under normal conditions of use.
- Hand protection : Use suitable impervious leather gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection.
- Skin and body protection : Not required.
- Protective measures : Other equipment not normally required.
- Engineering measures : General ventilation is sufficient.

**Exposure Limits**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Regulation</b>	<b>Limit</b>	<b>Form</b>
Calcium Carbonate (Limestone)	1317-65-3	OSHA PEL: OSHA PEL: ACGIH TWA: ACGIH TWA: OSHA TWA: OSHA TWA:	5 mg/m3 15 mg/m3 3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Respirable particles. Inhalable particles. Total dust. Respirable fraction.
Asphalt	8052-42-4	ACGIH TWA: benzene solubles	0.5 mg/m3	Inhalable fraction.as
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL: ACGIH TWA:	0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3 0.025 mg/m3	Respirable. Total dust. Total dust. Respirable fraction. Respirable fraction.
Magnesite	546-93-0	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction.
Fibrous Glass	65997-17-3	ACGIH TWA:	5 mg/m3	Inhalable fraction.



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<b>Chemical Name</b>	<b>CAS Number</b>	<b>Regulation</b>	<b>Limit</b>	<b>Form</b>
Clay	1332-58-7	ACGIH TWA:	2 mg/m3	Respirable fraction.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
Carbon Black	1333-86-4	ACGIH TWA:	3.5 mg/m3	Total dust. Respirable fraction.
		OSHA PEL:	3.5 mg/m3	
		OSHA TWA:	15 mg/m3	
		OSHA TWA:	5 mg/m3	

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form : Solid ply rolls  
 Color : Various colors  
 Odor : None  
 pH : Not available.  
 Vapour pressure : Not available.  
 Vapor density : Not available.  
 Melting point/range : Not available.  
 Freezing point : Not available.  
 Boiling point/range : Not available.  
 Water solubility : Not available.  
 Specific Gravity : 1.0  
 % Volatile Weight : 0 %

**SECTION 10 - REACTIVITY / STABILITY**

Stability : Material is stable under normal storage, handling, and use.  
 Hazardous polymerization : Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

No Data Available



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**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal Method : As purchased, this product, when discarded, is not a listed or characteristic hazardous waste according to Federal regulations (40 CFR 261). Check local, regional, state or provincial regulations for applicable requirements for disposal. Any processing, using, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste. Empty containers may retain product residue. Do not reuse.

**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**TDG / DOT Shipping Description:**  
NOT REGULATED

**SECTION 15 - REGULATORY INFORMATION**

**North American Inventories:**

All components are listed or exempt from the TSCA inventory.  
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

**U.S. Federal Regulations:**

SARA 313 Components : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard  
Chronic Health Hazard

**OSHA Hazardous Components :**

Calcium Carbonate (Limestone)	1317-65-3
Asphalt	8052-42-4
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Magnesite	546-93-0
Fibrous Glass	65997-17-3
Clay	1332-58-7
Carbon Black	1333-86-4

OSHA Status: Considered : Irritant  
hazardous based on the : Carcinogen  
following criteria:

OSHA Flammability : Not Regulated



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Regulatory VOC (less water and exempt solvent) : 0 g/l

VOC Method 310 : 0 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Fibrous Glass	65997-17-3
Carbon Black	1333-86-4

**U.S. State Regulations:**

MASS RTK Components	:	Calcium Carbonate (Limestone)	1317-65-3
		Asphalt	8052-42-4
		Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
		Fibrous Glass	65997-17-3
		Clay	1332-58-7

Penn RTK Components	:	Calcium Carbonate (Limestone)	1317-65-3
		Asphalt	8052-42-4
		Rhyolitic argillite/roofing granules	NJTSRN# 51721300-5488P
		Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
		Magnesite	546-93-0
		Fibrous Glass	65997-17-3
Clay	1332-58-7		

NJ RTK Components	:	Calcium Carbonate (Limestone)	1317-65-3
		Asphalt	8052-42-4
		Rhyolitic argillite/roofing granules	NJTSRN# 51721300-5488P
		Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
		Magnesite	546-93-0
		Fibrous Glass	65997-17-3
		Carbon Black	1333-86-4

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

8052-42-4	Asphalt
14808-60-7	Crystalline Silica (Quartz)/ Silica Sand
65997-17-3	Fibrous Glass
1333-86-4	Carbon Black
50-00-0	Formaldehyde



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**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	1
Flammability	0
Reactivity	0
PPE	

0 = Minimum  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

**Further information:**

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

**Prepared by: Rich Mikol**

**Legend**

ACGIH - American Conference of Governmental Hygienists  
 NTP - National Toxicology Program  
 DOT - Department of Transportation  
 DSL - Domestic Substance List  
 EPA - Environmental Protection Agency  
 HMIS - Hazardous Materials Information System  
 IARC - International Agency for Research on Cancer  
 MSHA - Mine Safety Health Administration  
 NDSL - Non-Domestic Substance List  
 NIOSH - National Institute for Occupational Safety and Health  
 CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
 OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit  
 RCRA - Resource Conservation and Recovery Act  
 RTK - Right To Know  
 SARA - Superfund Amendments and Reauthorization Act  
 STEL - Short Term Exposure Limit  
 TLV - Threshold Limit Value  
 TSCA - Toxic Substances Control Act  
 TWA - Time Weighted Average  
 V - Volume  
 VOC - Volatile Organic Compound  
 WHMIS - Workplace Hazardous Materials Information System

