TREMCO®

MATERIAL SAFETY DATA SHEET

3735 GREEN ROAD
BEACHWOOD, OHIO 44122-8068

TELEPHONE: (216)292-5000

EMERGENCIES: (216)765-6727 8:30-5:00 EST
AFTER HOURS: CHEMTREC (800)424-9300

SECTION 1

Order Code: 036STD601

Product Name: POWERPLY STANDARD
Chemical Name:
Chemical Family: Roofing Felt
Product Code: 036-STD
MSDS Preparer: R. A. MIKOL
Date Prepared: 22-OCT-99
Replaces Date: N/A

Other Applications:
THIS MATERIAL SAFETY DATA SHEET (MSDS) Also applies to 034-STD

Section 2 - Molecular Composition

Common Name and Chemical Name / Exposure Limits					Weight %	CAS Number
CALCIUM CARBONATE (LIMESTONE)					30.0-40.0	1317-65-3
OSHA:TWA	15 mg/M3	STEL	-	(total dust, 5mg/M3 respirable fraction)		
ACGIH:TWA	10 mg/M3	STEL	-	(total dust, no asbestos, <1% SiO2)		
RHYOLITIC ARGILLITE					25.0-35.0	NONE
OSHA:TWA	15 mg/M3	STEL	-	(total nuisance dust)		
ACGIH:TWA	10 mg/M3	STEL	-	(total nuisance dust)		
ASPHALT					15.0-25.0	8052-42-4
OSHA:TWA	-	STEL	-			
ACGIH:TWA	5 mg/M3	STEL	-	(fumes)		
MAGNESIUM CARBONATE					1.0-5.0	546-93-0
OSHA:TWA	15 mg/M3	STEL	-	(total dust, 5mg/M3 respirable fraction)		
ACGIH:TWA	10 mg/M3	STEL	-	(total nuisance dust)		
CRYSTALLINE SILICA (QUARTZ)					5.0-10.0	14808-60-7
OSHA:TWA	0.10 mg/M3	STEL	-	(respirable dust)		
ACGIH:TWA	0.10 mg/M3	STEL	-	(respirable dust)		
STYRENE-BUTADIENE-STYRENE BLOCK RUBBER					1.0-5.0	9003-55-8
OSHA:TWA	-	STEL	-			
ACGIH:TWA	-	STEL	-			
FIBROUS GLASS					1.0-3.0	65997-17-3
OSHA:TWA	-	STEL	-			
ACGIH:TWA	10 mg/M3	STEL	-	(dust)		
KAOLIN (CLAY)					1.0-3.0	66402-68-4
OSHA:TWA	10 mg/M3	STEL	-	(total dust, 2mg/M3 respirable fraction)		
ACGIH:TWA	2.00 mg/M3	STEL	-	(total dust, no asbestos, <1% SiO2)		
SODIUM SILICATE					1.0-3.0	1344-09-8
OSHA:TWA	15 mg/M3	STEL	-	(total nuisance dust)		
ACGIH:TWA	10 mg/M3	STEL	-	(total nuisance dust)		
FORMALDEHYDE-UREA BINDER					0.5-1.0	9011-05-6
OSHA:TWA	-	STEL	-			
ACGIH:TWA	-	STEL	-			
FORMALDEHYDE					0.0-0.01	50-00-0
OSHA:TWA	0.75 ppm	STEL	2.00 ppm			
ACGIH:TWA	-	Ceil	0.30 ppm			

Section 3 - Hazards Identification

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Emergency Overview:

White granules on black roofing membrane. During manufacture, hot material can cause burns. If on skin or eyes, apply cold water immediately and get medical attention as soon as possible.

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Potential Hlth Effect/Rte of Entry:

Inhalation:

During manufacture, vapors from hot material can cause irritation to respiratory system.

Eyes:

During manufacture, hot material can cause burns.

Ingestion:

Toxic by ingestion.

Skin:

During manufacture, hot material can cause burns.

Aggravated Medical Conditions:

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

Acute Health Effects:

See effects described above.

Chronic Health Effects:

Prolonged or repeated skin contact with asphalt in these products may result in irritation and dermatitis. Although a direct association between asphalt and cancer or other lung disease has not been established in man, asphalts contain variable amounts of polycyclic aromatic hydrocarbons and other volatiles which have been shown to cause cancer and respiratory damage in animals. 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. Long term exposure to formaldehyde has been shown to be associated with an increased risk of cancer of the nose and accessory sinuses, nasopharyngeal and oropharyngeal cancer, and lung cancer in humans.

Section 4 - First Aid Measures

Inhalation:

Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately.

Eyes:

Apply cold water immediately and get medical attention as soon as possible.

Ingestion:

Ingestion of hot material is not probable.

Skin:

Apply cold water immediately and get medical attention as soon as possible.

Notes to Physician:

If hot material strikes the skin, immediately drench or immerse the area in water to assist cooling. If available, apply iced water or ice packs to the burned area. (DO NOT use iced water or ice packs if the burned area covers greater than 10% 0f the body, as this may contribute to shock.) DO NOT try to remove asphalt from a burn after it has cooled. Seek medical attention. Medical personnel can soften and remove cooled asphalt with petroleum jelly. For contact with cold material, clean with a waterless hand cleaner, then wash with mild soap and water. If irritation persists, seek medical attention.

Section 5 - Fire Fighting Measures

Flash Point: N/A
Method: N/A
Lower Flammability Limit: N/A
Upper Flammability Limit: N/A
Autoignition Temperature: N/A
Extinguishing Media:
Water fog, carbon dioxide, dry chemical.
Fire and Explosion Hazards:
Not Applicable
Special Fire Fighting Procedures:
During a fire, personnel at the scene are to prevent exposure to fumes using accepted fire fighting techniques.
Fire Fighting Equipment: N/A
Other Precautions:
Not Applicable

Section 6 - Accidental Release Measures

Release Response Overview:
Transfer to appropriate container for disposal.

Section 7 - Handling and Storage

Handling and Storage Precautions:
Store under normal warehouse conditions. During manufacture, caution must be used to prevent contact with hot material. Prevent inhalation of vapor. Change soiled workclothes frequently. Clean hands thoroughly after handling.

Section 8 - Exposure Controls/Personal Protection

Respiratory:
During manufacture, use, NIOSH/MSHA approved organic vapor respirator when the vapor concentration exceeds the exposure limits indicated in Section 2.
Skin:
During manufacture, protect hands with heat resistant gloves and use slip resistant shoes impervious to hot bitumens. Protect hands with suitable gloves when handling finished product.
Eyes:
During manufacture, use chemical splash goggles.
Face:
During manufacture, face shield is recommended.
Engineering:
During manufacture, use local exhaust when general ventilation is not sufficient to keep airborne contaminant concentration below exposure limit in Section 2.

Section 9 - Physical and Chemical Properties

Odor/Appearance:	SLIGHT/WHITE GRANULED ROOFING MEMBRANE
Color:	WHITE/BLACK
Physical State:	SOLID
pH:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Boiling Point:	N/A
Melting Point:	N/A
Freezing Point:	N/A
Solubility in Water:	N/A
Specific Gravity:	1.0
% Volatile Weight:	0.0

Section 10 - Reactivity/Stability

Stability:
Stable

Incompatible Products:
Not Applicable

Conditions to Avoid Polymerization:
Not Applicable

Section 11 - Toxicological Information

Eyes:	SEE SECTION 3
Ingestion:	" " "
Inhalation:	" " "
Skin:	" " "
Subchronic:	" " "
Chronic:	" " "

Section 12 - Ecological Information

Ecotoxicological Data:	N/A
Chemical Fate:	N/A

Section 13 - Disposal Considerations

RCRA Class:	N/A

Disposal Method:
Not regulated by RCRA. Dispose of in compliance with state and local regulations.

EPA Reportable Quantities

N/A

Section 14 - Transportation Data

DOT Shipping Name:	NOT REGULATED
DOT Hazard Class:	
DOT Label:	
UN/NA Number:	N/A
Packing Group:	
Special Provisions:	

Packaging

Exceptions:
Non-Bulk:
Bulk:

Quantity Limitations

Passenger Aircraft or Railcar:
Cargo Aircraft:

Vessel Stowage Requirements

Vessel Stowage:
Other Stowage:

Transportation Notes:	N/A

Section 15 - Regulatory Information

TSCA Status: On the TSCA Inventory
OSHA Status: Considered hazardous based on the following criteria:
Irritant

Target Organs

Lung
Skin

OSHA Hazardous Components	CAS Number
KAOLIN (CLAY)	66402-68-4
CALCIUM CARBONATE (LIMESTONE)	1317-65-3
MAGNESIUM CARBONATE	546-93-0
* CRYSTALLINE SILICA (QUARTZ)	14808-60-7
* ASPHALT	8052-42-4
* FORMALDEHYDE	50-00-0

* - CHEMICAL IS LISTED AS AN IARC, NTP, OSHA, or ACGIH CARCINOGEN

Compliance Quantites

N/A

SARA 311 Ratings

Immediate Health Hazard:	N
Delayed Health Hazard:	N
Fire Hazard:	N
Reactivity Hazard:	N
Sudden Release of Pressure Hazard:	N

SARA 313 Ingredients	CAS Number
FORMALDEHYDE	50-00-0

Proposition 65 Ingredients

Chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm.

	CAS Number
CRYSTALLINE SILICA (QUARTZ)	14808-60-7
ASPHALT	8052-42-4
FORMALDEHYDE	50-00-0

Section 16 - Other 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 HIS OWN INVESTIGATION OF COMPLIANCE WITH APPLICABLE REGULATIONS, INCLUDING THE SAFE USE OF THE PRODUCT UNDER EVERY FORESEEABLE CONDITION.