



3735 GREEN ROAD
BEACHWOOD, OHIO 44122-8068

MATERIAL SAFETY DATA SHEET
TELEPHONE: (216)292-5000

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

SECTION 1

Order Code: 036PRFR601

Product Name: POWERPLY PREMIUM FR
Chemical Name:
Chemical Family: Roofing Felt
Product Code: 036-PRFR Date Prepared: 25-OCT-99
MSDS Preparer: R. A. MIKOL Replaces Date: N/A

Other Applications:
THIS MATERIAL SAFETY DATA SHEET ALSO APPLIES TO 034-PRFR

Section 2 - Molecular Composition

Common Name and Chemical Name Exposure Limits	Weight %	CAS Number
ASPHALT	30.0-40.0	8052-42-4
OSHA:TWA - STEL -		
ACGIH:TWA 5 mg/M3 STEL - (fumes)		
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)		
FIRE RETARDANT	15.0-20.0	Trade Secret
OSHA:TWA 15 mg/M3 STEL - (total nuisance dust)		
ACGIH:TWA 10 mg/M3 STEL - (total nuisance dust)		
STYRENE-BUTADIENE-STYRENE BLOCK RUBBER	5.0-10.0	9003-55-8
OSHA:TWA - STEL -		
ACGIH:TWA - STEL -		
CRYSTALLINE SILICA (QUARTZ)	2.0-5.0	14808-60-7
OSHA:TWA 0.10 mg/M3 STEL - (respirable dust)		
ACGIH:TWA 0.10 mg/M3 STEL - (respirable dust)		
FIBROUS GLASS	2.0-4.0	65997-17-3
OSHA:TWA - STEL -		
ACGIH:TWA 10 mg/M3 STEL - (dust)		
FIRE RETARDANT	1.0-3.0	Trade Secret
OSHA:TWA - STEL -		
ACGIH:TWA - STEL -		
KAOLIN (CLAY)	1.0-2.0	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	1.0-2.0	1344-09-8
OSHA:TWA 15 mg/M3 STEL - (total nuisance dust)		
ACGIH:TWA 10 mg/M3 STEL - (total nuisance dust)		

Felt is coated with hot bitumen during manufacture. Workers must comply with health and safety precautions outlined in subsequent sections. Under current criteria finished product is not considered hazardous to health.

Section 3 - Hazards Identification

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.

Potential Hlth Effect/Rte of Entry:

Inhalation:

During manufacture, vapors from hot material may cause nose, throat, and

mucous membrane irritation, nausea, headaches, and dizziness.

Eyes:

During manufacture, vapors from hot material may cause severe irritation or corrosive burns.

Ingestion:

May cause mouth, throat, and gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration during swallowing or vomiting may cause lung damage and maybe fatal.

Skin:

Prolonged or repeated contact may cause dryness, cracking, and irritation. Long-term exposure may increase sensitivity to the sun and cause discoloration. If product is heated, thermal burns may occur.

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. No chronic hazard. Acute hazards are dermatitis, local irritation. ACGIH TLV is 10mg/m³ total dust.

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% of 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: >500 F
Method: PM CC
Lower Flammability Limit: NOT ESTABLISHED
Upper Flammability Limit: NOT ESTABLISHED
Autoignition Temperature: NOT APPLICABLE
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. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment.

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 the general ventilation is not sufficient to keep the airborne contaminant concentration below the exposure limit in Section 2.

Section 9 - Physical and Chemical Properties

Odor/Appearance: SLIGHT/WHITE GRANULED ROOFING MEMBRANE
Color: BLACK/WHITE
Physical State: SOLID
pH: N/A
Vapor Pressure: NOT APPLICABLE
Vapor Density: NOT APPLICABLE
Boiling Point: NOT ESTABLISHED
Melting Point: >250 F
Freezing Point: NOT APPLICABLE
Solubility in Water: NEGLIBIBLE
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:
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
* CRYSTALLINE SILICA (QUARTZ)	14808-60-7
* ASPHALT	8052-42-4

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

Compliance Quantities

N/A

SARA 311 Ratings

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

SARA 313 Ingredients

No SARA 313 Ingredients

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

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.