

POWERPLY PLUS HT FR - WHITE GRANULE

Version 1.1

Print Date 07/26/2007

REVISION DATE: 09/01/2006

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : POWERPLY PLUS HT FR - WHITE GRANULE
 Product code : 36PLHTFR601

COMPANY : Tremco Incorporated
 3735 Green Road
 Cleveland, OH 44122

Telephone : (216) 292-5000 8:30 - 5:00 EST
 Emergency Phone: : (216) 765-6727 8:30 - 5:00 EST
 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). 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.

Target Organs: Skin, Eye, Lung

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Asphalt	8052-42-4	30.0 - 60.0
Rhyolitic argillite/roofing granules	NJ TSRN# 51721300-5488P	15.0 - 40.0
Fire retardant	NJ TSRN# 51721300-5035P	15.0 - 40.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	15.0 - 40.0
Styrene-butadiene copolymers	NJ TSRN# 51721300-5132P	5.0 - 10.0
Clay	1332-58-7	1.0 - 5.0
Carbon Black	1333-86-4	<1.0

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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.

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

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Asphalt	8052-42-4	ACGIH TWA: benzene solubles	0.5 mg/m3	Inhalable fraction.as
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	ACGIH TWA: OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL:	0.05 mg/m3 0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Respirable. Total dust. Total dust. Respirable fraction.
Clay	1332-58-7	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	2 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Respirable fraction. Total dust. Respirable fraction.
Carbon Black	1333-86-4	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	3.5 mg/m3 3.5 mg/m3 15 mg/m3 5 mg/m3	Total dust. Respirable fraction.

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	: 1.3
% 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 :

Asphalt	8052-42-4
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Clay	1332-58-7
Carbon Black	1333-86-4

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

OSHA Flammability : Not Regulated

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

VOC Method 310 : 0 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:
 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

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Carbon Black 1333-86-4

U.S. State Regulations:

MASS RTK Components :	Asphalt	8052-42-4
	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Clay	1332-58-7
Penn RTK Components :	Asphalt	8052-42-4
	Rhyolitic argillite/roofing granules	NJ TSRN# 51721300-5488P
	Fire retardant	NJ TSRN# 51721300-5035P
	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Styrene-butadiene copolymers	NJ TSRN# 51721300-5132P
	Clay	1332-58-7
NJ RTK Components :	Asphalt	8052-42-4
	Rhyolitic argillite/roofing granules	NJ TSRN# 51721300-5488P
	Fire retardant	NJ TSRN# 51721300-5035P
	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Styrene-butadiene copolymers	NJ TSRN# 51721300-5132P
	Carbon Black	1333-86-4

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
1333-86-4	Carbon Black

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
- CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
- 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
- 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

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NTP - National Toxicology Program

WHMIS - Workplace Hazardous Materials Information System

OSHA - Occupational Safety and Health Administration