SECTION 1 - PRODUCT IDENTIFICATION

Trade name: TPO 45 MIL WHITE FIELD 78"x 100'
Product code: TPO450 503

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
White to Gray. 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).

Target Organs: Skin, Eye, Lung

SECTION 3 - PRODUCT COMPOSITION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene/propylene copolymer</td>
<td>NJ TSRN# 51721300-5172P</td>
<td>&gt; 60.0</td>
</tr>
<tr>
<td>Polyester mat</td>
<td>25038-59-9</td>
<td>10.0 - 30.0</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>&lt; 1.0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Regulation</th>
<th>Limit</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>ACGIH TWA:</td>
<td>10 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL:</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

TPO 45 MIL WHITE FIELD 78"x 100'
Version 1.
REVISION DATE: 01/31/2008

Print Date 09/15/2008

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Regulation</th>
<th>Limit</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>ACGIH TWA:</td>
<td>3.5 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL:</td>
<td>3.5 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>15 mg/m3</td>
<td>Total dust.</td>
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<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>5 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: Solid ply rolls
Color: White to Gray
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
% 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

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 :
Titanium dioxide 13463-67-7
Carbon Black 1333-86-4

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

OSHA Flammability : Not Regulated
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:
Carbon Black 1333-86-4

U.S. State Regulations:
MASS RTK Components : Titanium dioxide 13463-67-7
Penn RTK Components :
   Ethylene/propylene copolymer NJ TSRN# 51721300-5172P
   Polyester mat 25038-59-9
   Titanium dioxide 13463-67-7
NJ RTK Components :
   Ethylene/propylene copolymer NJ TSRN# 51721300-5172P
   Polyester mat 25038-59-9
   Titanium dioxide 13463-67-7
   Carbon Black 1333-86-4

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:
Carbon Black
SECTION 16 - OTHER INFORMATION

HMIS Rating:

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>PPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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  
NTP - National Toxicology Program  
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