1. Identification
Product Identifier: X-Seal® Membrane/Tape Film
Manufacturer: Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
(631) 234-0600
www.h-b.com
Recommended use:
Recommended restrictions:

2. Hazards Identification

Hazardous Material Information System (HMIS)          National Fire Protection Association (NFPA)

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>0</td>
<td>E</td>
</tr>
</tbody>
</table>

HMIS & NFPA Hazard Rating Legend
* = CHRONIC HEALTH HAZARD
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name/CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene-methyl acrylate copolymer</td>
<td>No data found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25103-74-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene ethylene copolymer</td>
<td>No data found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9010-79-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polypropylene</td>
<td>No data found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9003-07-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black (encapsulated in plastic)</td>
<td>3.5 mg/m3 TWA</td>
<td>3.5 mg/m3 TWA</td>
<td>NIOSH: 3.5 mg/h3 TWA</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>(inhalable particulate matter)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc stearate (encapsulated in plastic)</td>
<td>5 mg/m3 TWA</td>
<td>10 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
</tr>
<tr>
<td>557-05-01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide (encapsulated in plastic)</td>
<td>15 mg/m3 TWA</td>
<td>10 mg/m3 TWA</td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modifier/additives/stabilizers</td>
<td>Proprietary mix, no data found</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific chemical identity and percentage content of ingredients withheld as trade secret pursuant to Massachusetts regulations. Reporting requirements of section 313 title III of the superfund amendments and reauthorization act of 1986 and 10 CFR part 373 apply.
4. First-Aid Measures

**Inhalation:** If exposed to combustion products, remove victim from the exposure. Seek medical aid for significant exposure to combustion products.

**Skin Contact:** Routine first aid treatment for cuts and abrasions from handling and cutting.

5. Fire-fighting measures

**Flammable Limits:**
- LEL: N/A
- UEL: N/A

**Flash Point:** N/A

**Extinguishing Media:** Water, foam, carbon dioxide, dry chemicals.

**Unusual Fire or Explosion Hazards:** None.

**Hazardous Combustion Products:** See Section 10 for a list of hazardous decomposition products for this mixture.

**Special Procedures:** Hydrogen chloride gas may be released from vented or ruptured containers. Heat is generated when water is added with the possibility of spattering. Use water to keep containers exposed to fire cool until fire is extinguished. Water and foam may cause a violent reaction if sprayed on melting, burning containers, endangering fire fighters. Full protective equipment and SCBA is recommended.

**Fire Fighting:** No data found.

6. Accidental release measures

Not normally necessary.

7. Handling and storage

**Handling Precautions:** Do not heat beyond 572°F (300°C).

**Storage:** Keep away from extreme heat.

8. Exposure Control and Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name/CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene-methyl acrylate copolymer 25103-74-6</td>
<td>No data found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene ethylene copolymer 9010-79-1</td>
<td>No data found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polypropylene 9003-07-0</td>
<td>No data found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black (encapsulated in plastic) 1333-86-4</td>
<td>3.5 mg/m3 TWA</td>
<td>3.5 mg/m3 TWA (inhalable particulate matter)</td>
<td>NIOSH: 3.5 mg/m3 TWA</td>
</tr>
<tr>
<td>Zinc stearate (encapsulated in plastic) 557-05-01</td>
<td>5 mg/m3 TWA</td>
<td>10 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
</tr>
<tr>
<td>Titanium dioxide (encapsulated in plastic) 13463-87-7</td>
<td>15 mg/m3 TWA</td>
<td>10 mg/m3 TWA</td>
<td></td>
</tr>
<tr>
<td>Modifier/additives/stabilizers</td>
<td>Proprietary mix, no data found</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Engineering controls:** Not normally necessary.

**Ventilation Control:** No data found.

**Administrative controls:** No data found.

**Personal Protection:** As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee.

**Eye Protection:** Safety glasses are recommended.

**Gloves:** Leather or cotton.

**Respiratory:** Not normally necessary.

**Footwear:** Construction grade safety footwear.
9. Physical and chemical properties

Physical State: Solid
Odor & Appearance: Slight waxy odor
Specific Gravity: 0.88 to 0.97
Vapor Pressure: Negligible
Freezing Point (C): >120°C
Vapor Density (air=1): Not available
Percent Volatile (by volume): Negligible
Flammability: No data found
Explosive Limits: No data found
Autoignition temperature: No data found
Viscosity: No data found
% Volatile (by weight): No data found

Physical State: Solid
Odor Threshold: Not available
Solubility: Insoluble
Boiling Point (C): Not available
pH: Not applicable
Evaporation Rate (BuAe=1): Negligible
Flash point: No data found
Vapor Pressure: No data found
Partition coefficient (n-Octanol/water): No data found
Decomposition Temperature: No data found
Density: No data found

10. Stability and reactivity
Stability: Stable at ambient temperatures.
Incompatibility: Strong oxidizing chemicals.
Conditions of Reactivity: Avoid temperatures above (572°F) 300°C.
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, ketones, acrolein, formaldehyde, aldehydes.

11. Toxicological information
Routes of Entry: None known under normal use of this solid film.
Effects of Acute Exposure: No known effects under normal use.
Effects of Chronic Exposure: No known effects under normal use.
Exposure Limits: None applicable for the solid film.

12. Ecological Information
No data found.

13. Disposal Considerations
Can be disposed of in normal trash/landfill.

14. Transport information
Not regulated.

15. Regulatory Information
No data found.

16. Other information
Issue Date: May 31, 2015
Revision Date: May 31, 2015
Disclaimer: All information, recommendations, and suggestions appearing herein concerning this product are taken from sources or based upon data believed to be reliable. Although reasonable care has been taken in the preparation of this information, Hohmann & Barnard extends no warranties or guarantees, express or implied, makes no representations, and assumes no responsibility as to the accuracy, reliability or completeness of the information presented. Since the actual use of the product described herein is beyond our control, POSCO assumes no liability arising out of the use of the product by others. It is the user’s responsibility to determine the suitability of the information presented herein, to assess the safety and toxicity of the product under their own conditions of use, and to comply with all applicable laws and regulations. Appropriate warnings and safe handling procedures should be provided to handlers and users.