Section 1. Identification

GHS product Identifier 650 Sheet Membrane
Other means of identification Not available

Relevant identified used of the substance or mixtures and uses advised against
Polymer modified bitumen membrane used as a post concrete self-adhesive water proofing membrane/vapor retarder that virtually eliminates water and vapor transmission through concrete slabs.

Supplier’s details Polyguard Products, Inc.
4101 South Interstate 45
Ennis, TX 75119
Tel: (214) 515-5000

Emergency telephone number) with hours of operation) CHEMTREC, US 1-800-424-9300 International 1-703-527-3887 (24/7)

Section 2. Hazards Identification

OSHA/HCS status While this material is not considered hazardous by the OSHA Hazardous Communications Standard (49CFR1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture Not classified

This product is manufactured as an article under the United States Hazard Communication System and is exempted from the regulatory requirements under HCS.

GHS label elements
Signal word No signal word
Hazard statement No known significant effects or critical hazards.

Precautionary statements
Prevention Not applicable
Response Not applicable
Storage Not applicable
Disposal Not applicable
Hazards not otherwise classified None known

Section 3. Composition/Information on Ingredients

Substance/Mixture Mixture
Other means of identification Not available

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalts</td>
<td>60-80</td>
<td>8052-42-4</td>
</tr>
<tr>
<td>Distillates (petroleum), petroleum residues vacuum</td>
<td>60-80</td>
<td>68955-27-1</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>0.001-0.01</td>
<td>7783-06-4</td>
</tr>
<tr>
<td>Limestone</td>
<td>15 - 20</td>
<td>1317-65-3</td>
</tr>
<tr>
<td>Crystalline Silica, quartz (impurity)</td>
<td>0.5 – 1.5</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

The exact percentage (concentration) in the composition has been withheld as a trade secret.
Occupational exposure limits, if available are listed in section 8.
None of the components of this article are in a respirable state.
Section 4. First Aid Measures

Description of necessary first aid measures.

Eye contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if symptoms occur.

Inhalation
Because of the nature of this product, inhalation is not a route of exposure.

Skin contact
Material is in a solid form. If skin contact, wash area with soap and water. Get medical attention if skin irritation occurs.

Ingestion
Ingestion is not a route of exposure.

Most important symptoms/effects, acute and delayed
Potential acute health effects

Eye contact
No known significant effects or critical hazards

Inhalation
No known significant effects or critical hazards

Skin contact
No known significant effects or critical hazards

Ingestion
No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact
No known significant effects or critical hazards

Inhalation
No known significant effects or critical hazards

Skin contact
No known significant effects or critical hazards

Ingestion
No known significant effects or critical hazards

Indication of immediate medical attention and special treatment needed, if necessary.

Notes to physician:
Treat symptomatically.

Specific treatments
No specific treatment

Protection of first aiders
No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media
Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media
None known

Specific hazards arising from the chemical
No specific fire or explosion hazard.

Hazardous thermal decomposition products
Decomposition products may include the following materials:
Carbon Dioxide
Carbon Monoxide
Sulfur oxides
Low MW hydrocarbons

Special protective equipment
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in a positive pressure mode.

Special protective actions for fire fighters
Promptly isolate the scene by removing all persons from the vicinity of the incident is there is a fire. No action shall be taken involving any personal risks or without suitable training.
Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures.**

For non emergency personal
Put on appropriate personal protective equipment.

For emergency responders
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel.”

**Enviromental precautions**
Material will not spill.

**Methods and materials for containment and cleaning up**
Spill
Due to the physical state of this material, spills are not possible.

Section 7. Handling and Storage

**Precautions for safe handling**
Put on appropriate personal protective equipment (see Section 8).

**Protective measures**
Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See section 8 for additional information on hygiene measures.

**Advice on general occupational hygiene**

**Conditions for safe storage, including any incompatibilities**
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well-ventilated area away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabeled containers.

Section 8. Exposure Controls/Personal Protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>NIOSH REL (United States, 10/2016)</td>
</tr>
<tr>
<td></td>
<td>CEIL: 5 mg/m³ 15 minutes. Form: fume</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (United States, 3/2019)</td>
</tr>
<tr>
<td></td>
<td>TWA: 0.5 mg/m³, (as benzene soluble aerosol) 8 hours. Form: inhalable fraction. None</td>
</tr>
<tr>
<td>Distillates( petroleum), petroleum residues vaccum</td>
<td>ACGIH TLV (United States, 3/2018)</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>TWA: 1 ppm 8 hours</td>
</tr>
<tr>
<td></td>
<td>STEL: 5 ppm 15 minutes</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL Z2 (United States, 2/2013)</td>
</tr>
<tr>
<td></td>
<td>CEIL: 20 ppm</td>
</tr>
<tr>
<td></td>
<td>AMP: 50 ppm 10 minutes</td>
</tr>
<tr>
<td>Limestone</td>
<td>NIOSH REL (United States, 10/2016)</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³ (total) TWA 5 mg/m³ (respirable)</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 2/2013)</td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m³ (total) TWA 5 mg/m³ ( respirable)</td>
</tr>
<tr>
<td>Crystalline Silica, quartz (impurity)</td>
<td>NIOSH REL (United States, 10/2016)</td>
</tr>
<tr>
<td></td>
<td>Ca TWA: 0.05 mg/m³</td>
</tr>
</tbody>
</table>
Section 8. Exposure Controls/Personal Protection

Appropriate engineering controls
No special ventilation requirements. Good ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Hygiene measure
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection
Safety eyewear complying with an approved standard should be used when risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases and dusts.

Skin Protection

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and Chemical Properties

Appearance
Physical state
Solid
Color
Black/white backing
Odor
Asphaltic(slight)
Odor threshold
Not available
pH
Not applicable
Melting point
Not available
Boiling point
Not applicable
Flash Point
Not determined
Evaporation rate:
Not applicable
Flammability (solid, gas)
Not applicable
Lower & upper explosive (flammable) limits
Not applicable
Vapor density
Not applicable
Vapor pressure
Not applicable
Relative density
1.09
Solubility
Insoluble in water
Partition coefficient: n- octanol/water
Not available
Auto-ignition temperature
Not applicable
Decomposition temperature
Not applicable
Viscosity
Not applicable
VOC
0 g/l
Section 10. Stability and Reactivity

**Reactivity**
No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**
This product is stable.

**Possibility of hazardous reactions**
Under normal conditions of storage and use, hazardous reaction will not occur.

**Conditions to avoid:**
No specific data.

**Incompatible materials**
Reactive or incompatible with the following materials: Oxidizing materials

**Hazardous decomposition products**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>LC50 Inhalation Gas</td>
<td>Rat</td>
<td>444 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>700 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td>Limestone</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>6450 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Crystalline Silica, quartz (impurity)</td>
<td>LD50 Oral</td>
<td>Rat Mouse</td>
<td>500 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Irritation/Corrosion**
There is no data available

**Sensitization**
There is no data available

**Mutagenicity**
There is no data available

**Carcinogenicity**

**Classification**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>-</td>
<td>2B</td>
<td>-</td>
</tr>
<tr>
<td>Crystalline Silica, quartz (impurity)</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

**Reproductive toxicity**
There is no data available

**Teratogenicity**
There is no data available

**Specific target organ toxicity (single exposure)**
There is no data available

**Specific target organ toxicity (repeated exposure)**
There is no data available

**Aspiration hazard**
There is no data available

**Information on the likely routes of exposure**
Routes of entry anticipated: dermal contact
Routes of entry not anticipated: Oral, inhalation, ingestion

**Potential acute health effects**

**Eye contact**
No known significant effects or critical hazards

**Inhalation**
No known significant effects or critical hazards

**Skin contact**
No known significant effects or critical hazards

**Ingestion**
No known significant effects or critical hazards

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact**
No known significant effects or critical hazards

**Inhalation**
No known significant effects or critical hazards

**Skin contact**
No known significant effects or critical hazards

**Ingestion**
No known significant effects or critical hazards
Section 11. Toxicological Information

Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure
Potential immediate effects
No known significant effects or critical hazards
Potential delayed effects
No known significant effects or critical hazards

Long term exposure
Potential immediate effects
No known significant effects or critical hazards
Potential delayed effects
No known significant effects or critical hazards
Potential chronic health effects

General
No known significant effects or critical hazards
Carcinogenicity
No known significant effects or critical hazards
Mutagenicity
No known significant effects or critical hazards
Teratogenicity
No known significant effects or critical hazards
Developmental effects
No known significant effects or critical hazards
Fertility effects
No known significant effects or critical hazards

Numerical measures of toxicity
Acute toxicity estimates
There is no data available

Section 12. Ecological Information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Sulfide</td>
<td>Acute EC50 62 µg/L Fresh water</td>
<td>Crustaceans-Gammarus pseudolimnaeus</td>
<td>2 days</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 2 µg/L Fresh water</td>
<td>Fish-Coregonus clupeiformis- Yolk Sac fry</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
Bioaccumulative potential
There is no data available

Mobility in soil
Soil/water partition coefficient (Koc)
There is no data available.

Section 13. Disposal Considerations

Disposal methods
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Section 14. Transportation Information

AERG: Not applicable
Regulatory Information:
DOT/TDG/IMDG/IATA Not regulated
Section 15. Regulatory Information

U.S. Federal regulations:
- TSCA 8(a) CDR Exempt/Partial exemption: Not determined
- United States inventory (TSCA 8 b): all components are listed or exempted
- Not listed

Clean Air Act Section 112 (b) Hazardous air pollutants (HAPs)
- Not listed

Clean Air Act (CAA) Section 602 Class I Substances
- Not listed

Clean Air Act (CAA) Section 602 Class II Substances
- Not listed

DEA List I Chemicals (Precursor chemicals)
- Not listed

DEA List II Chemicals (Essential Chemicals)
- Not listed

SARA 302/304 Composition/information on ingredients
- SARA 304 RQ: Not applicable
- SARA 311/312: Not applicable
- SARA 313: Not applicable

State regulations
- Massachusetts: The following components are listed: Petroleum asphalt
- New Jersey: The following components are listed: Petroleum asphalt
- New York: None of the components are listed
- Pennsylvania: The following components are listed: Petroleum asphalt
- None of the components are listed on the Prop 65 list dated 1-3-2020.

16. Other Information

Date of revision 3-20-2020
Date of previous issue 12-17-2014
Revisions
- Change Mfg. Address to 4101 S. I-45.
- Change phone number to 214-515-5000 from 800 number.
- Update product composition information

Version 5
Prepared by C. Rogalski

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