Section 1. Identification

GHS product Identifier: Tileguard™ Anti Fracture Underlayment
Other means of identification: Not available

Relevant identified uses of the substance or mixtures and uses advised against
Polymer modified bitumen membrane used as an anti-fracture underlayment.

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

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Not available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalts</td>
<td>40-50</td>
<td>8052-42-4</td>
</tr>
<tr>
<td>Distillates (petroleum), petroleum residues vaccum</td>
<td>40-50</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>40-50</td>
<td>1317-65-3</td>
</tr>
<tr>
<td>Crystalline Silica, quartz (impurity)</td>
<td>1.5-3.5</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**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>No known significant effects or critical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No known significant effects or critical hazards</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known significant effects or critical hazards</td>
</tr>
</tbody>
</table>

**Over-exposure signs/symptoms**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>No known significant effects or critical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No known significant effects or critical hazards</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known significant effects or critical hazards</td>
</tr>
</tbody>
</table>

**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.”

**Environmental 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**
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.

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>Distillates (petroleum), petroleum</td>
<td>ACGIH TLV (United States, 3/2019)</td>
</tr>
<tr>
<td>residues vacuum</td>
<td>TWA: 0.5 mg/m³, (as benzene soluble aerosol) 8 hours. Form: inhalable fraction</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>ACYLH TLV (United States, 3/2018)</td>
</tr>
<tr>
<td></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>Distillates (petroleum), petroleum</td>
<td>CEIL: 20 ppm</td>
</tr>
<tr>
<td>residues vacuum</td>
<td>AMP: 50 ppm 10 minutes.</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 10/2016)</td>
</tr>
<tr>
<td>Limestone</td>
<td>CEIL: 15 mg/m³ 10 minutes.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 2/2013)</td>
</tr>
<tr>
<td>Crystalline Silica, quartz (in purity)</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></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 contaminant.

**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, imprevious 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 preformed 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 preformed 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
**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 (in purity)</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 (in purity)</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 clupeaformis- Yolk Sac fry</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability: There is no data available
Bioaccumulative potential: There is no data available
Mobility in soil: There is no data available
Soil/water partition coefficient (Koc): There is no data available
Other adverse effects: No known significant effects or critical hazards

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

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
California Prop.65 None of the components are listed on the Prop65 list dated 1-3-2020.

16. Other Information

Date of revision: 3-26-2020
Date of previous issue 12-10-2014
Revisions: Change Mfg. Address to 4101 S. I-45.
Change phone number to 214-515-5000 from 800 number.
Update product composition

Version 4
Prepared by C. Rogalski

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