1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: TAMKO Waterproofing Membrane
LABEL: TW UNDERLAYMENT, TW SEAM TAPE
USE & DESCRIPTION: Rolled Waterproofing
CHEMICAL FAMILY: Mixture

MANUFACTURED BY: TAMKO Building Products, Inc.
P. O. Box 1404
Joplin, MO 64802-1404
www.TAMKO.com

EMERGENCY TELEPHONE NUMBERS:
General Information: 1-417-624-6644 (8 a.m. - 5 p.m. CST)
Chemtrec: 1-800-424-9300 (24 HOURS)

2. HAZARDS IDENTIFICATION

SIGNAL WORD: Danger
GHS CLASSIFICATION:
- Carcinogenicity – Category 1A
- Skin Sensitization – Category 1
- Respiratory Sensitization – Category 1
- Specific Target Organ Toxicity, Repeated Exposure – Category 1

HAZARD STATEMENTS:
- May cause cancer.
- May cause an allergic skin reaction.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Causes damage to organs through prolonged or repeated exposure.

Additional hazard information: Can cause silicosis and other permanent lung damage.

PRECAUTIONARY STATEMENTS:

Prevention
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Do not breathe dust. Wear protective gloves/protective clothing/eye protection/face protection.
- Do not eat, drink or smoke when using this product.
- In case of inadequate ventilation, wear respiratory protection.
- Wash hands and exposed skin thoroughly after handling.
- Contaminated work clothing must not be allowed out of the workplace.

Response
- If on skin: Wash with plenty of water. Get medical advice/attention: If exposed or concerned or you feel unwell; if eye, respiratory, and or skin irritation persists.
- Specific treatment: See section 4-First Aid In case of fire: See Section 5.
- Take off contaminated clothing and wash before reuse.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Storage
- Store locked up.

Disposal
- Dispose in accordance with Federal, State, and Local regulations. (See section 13 for additional information).

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>75-90</td>
</tr>
<tr>
<td>Limestone*</td>
<td>1317-65-3</td>
<td>1-11</td>
</tr>
<tr>
<td>Polymer</td>
<td>NA</td>
<td>10-20</td>
</tr>
<tr>
<td>*Contains Crystalline Silica Quartz</td>
<td>14808-60-7</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of cool water for at least 20 minutes, occasionally lifting the eye lids to ensure thorough rinsing. Get medical attention if irritation persists.

SKIN CONTACT: Clean any exposed skin with warm soapy water if possible. If not, and a waterless hand cleaner is used, it should be without pumice. Do not use solvents or thinners to remove material from skin. Get medical attention if irritation persists or develops.

INGESTION: If swallowed, do not induce vomiting. If vomiting occurs, keep head lower than hips to avoid aspiration of vomit into the lungs which can cause inflammation or pneumonitis. Call poison control center or get immediate medical attention.

INHALATION: If inhalation of cured product particles, fumes, vapors, or mist occurs, remove person to fresh air. Drink water to clear throat or blow nose to clear. If not breathing, give artificial respiration or give oxygen by trained personnel and get immediate medical attention.

NOTES TO PHYSICIAN: Treatment should be based on removing the source of irritation with treatment of symptoms as necessary.
5. **FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Dry chemical, CO₂, or foam fire extinguisher should be used. Avoid use of straight-stream water.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should not enter confined spaces without wearing a National Institute for Occupational Safety and Health (NIOSH) approved positive pressure self-contained breathing apparatus (SCBA) with full face mask and full protective equipment. Water may be used to cool containers in a fire-exposed area.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** When heated, fumes may burn if ignition source is provided. Petroleum asphalt fumes can explode if emitted in an enclosed environment and supplied with an ignition source. Burning product may cause thick black smoke.

SEE SECTION 10 FOR COMBUSTION PRODUCTS

6. **ACCIDENTAL RELEASE MEASURES**

**PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED:** Pick up large pieces. Do not dry sweep dusts or blow with air in confined area.

**WASTE DISPOSAL METHODS:** Dispose in accordance with applicable Federal, State, and Local regulations. Do not burn.

7. **HANDLING AND STORAGE**

**STORAGE TEMPERATURE:** Store away from heat and all ignition sources and open flames in accordance with applicable laws and regulations. THIS PRODUCT SHOULD NOT BE HEATED OR BURNED USING A DIRECT FLAME DEVICE.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Follow recommended work practices and use recommended personal protective clothing and equipment. See Section 8 of this SDS.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw Products</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>NE</td>
<td>0.5*</td>
<td>NE   mg/m³</td>
</tr>
<tr>
<td>Limestone†</td>
<td>1317-65-3</td>
<td>15/5**</td>
<td>10/3**</td>
<td>NE   mg/m³</td>
</tr>
<tr>
<td>†Contains Crystalline Silica Quartz</td>
<td>14808-60-7</td>
<td>0.050</td>
<td>0.025</td>
<td>NE   mg/m³</td>
</tr>
</tbody>
</table>

NE= Not established.

Note: Due to the form of the product, hazardous exposures from this product are not expected to occur. Gloves must be worn when handling and adequate ventilation must be provided during roofing related activities.

**RESPIRATORY PROTECTION:** Normally not needed in well-ventilated areas. If applicable exposure standards are exceeded or can be exceeded, use a NIOSH approved air-purifying respirator. If concentrations are sufficiently high that this respirator is inadequate, or high enough to cause oxygen deficiency, use a positive pressure self-contained breathing apparatus (SCBA). Follow all applicable respirator/SCBA use, fitting, training standards and regulations.

**VENTILATION:** Use only with adequate ventilation to maintain exposures below applicable exposure limits. Local exhaust ventilation and/or enclosure of the process may be required. All equipment must be explosion proof.

**EYE PROTECTION:** Chemical safety goggles with side-shields or face shield must be used if eye contact is possible.

**SKIN:** Chemical resistant gloves, apron, or other protective clothing needed to prevent skin contact. Must wear leather or heat-resistant gloves, long-sleeve cotton shirt, long pants with no cuffs, and non-skid shoes or boots with 6-inch leather uppers during application and/or tear off activities.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

| Appearance and Odor: | Asphalt coated film. |
| Odor Threshold: | Not Applicable |
| pH: | Not Applicable |
| Boiling Point: | >700 ºF |
| Melting Point: | >200 ºF |
| Flash Point: | Not Applicable |
| Autoignition Temperature: | > 460ºC/860ºF |
| Viscosity: | Not Applicable |
| Decomposition Temperature: | Not Applicable |

| Upper/Lower Flammability or Explosive Limits: | Not Applicable |
| Vapor Pressure: | Not Applicable |
| Vapor Density (Air = 1): | Not Applicable |
| Specific Gravity/Relative Density: | Variable |
| Solubility (IES): | No data available |
| Initial Boiling Point and Boiling Range: | Not Applicable |
| Evaporation Rate (Butyl Acetate = 1): | <0.1 |
| Flammability(Solid and Gas): | Not Applicable |
| Partition Coefficient: N-Octanol/Water: | Not Applicable |

10. **STABILITY AND REACTIVITY**

**STABILITY:** Stable

**REACTIVITY:** Reactivity will not occur.

**CONDITIONS TO AVOID:** Keep from heat, sparks, open flame and other sources of ignition. Avoid contact with strong oxidizing agents.

**HAZARDOUS REACTION:** Polymerization will not occur.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong acids or bases, oxidizing agents and selected amines.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide, ozone, hydrogen sulfide, oxides of sulfur and various hydrocarbons. These combustion products are not expected unless product is heated or burned.

11. **TOXICOLOGICAL INFORMATION**

**EYE:** – Can cause eye irritation.

**SKIN:** – Can cause skin irritation and/or sensitization.

**INHALATION:** – Dust may cause upper respiratory irritation and/or sensitization.

**INGESTION:** – May cause harmful effects if swallowed.
THE FOLLOWING COMPONENT DATA IS PROVIDED FOR USER INFORMATION:

SILICA
Cancer - This product contains crystalline silica (quartz). IARC has determined that crystalline silica inhaled in the form of quartz from occupational sources is carcinogenic to humans (Group 1). IARC concluded that there was sufficient evidence in humans and animals for the carcinogenicity of inhaled crystalline silica in the form of quartz from occupational sources. The NTP has classified silica as known to be a human carcinogen. The physical nature of this product may help limit any inhalation hazard from crystalline silica during application and in its hardened state. However, physical forces such as sawing, grinding, drilling and other demolition work on this product may liberate crystalline silica dust.

Acute Effects - Exposure to silica dust can cause irritation of the eyes, nose and throat. Exposure to high concentrations can also cause Accelerated Silicosis causing progressive shortness of breath, fever, coughing, and weight loss.

Chronic Effects – In addition to cancer, breathing of silica over a period of time can cause damage to the lung tissue or silicosis after long exposure at low concentrations causing shortness of breath, fever, coughing, and weight loss. Prolonged and repeated exposure to respirable silica-containing dust may cause autoimmune disease, kidney disease, tuberculosis, and nonmalignant respiratory disease, and bronchitis.

ASPHALT
Cancer - This product contains asphalt. The National Institute for Occupational Safety and Health has concluded that the fumes of heated roofing asphalt are a potential occupational carcinogen. Asphalt may also cause irritation of the respiratory tract. The physical nature of this product may help limit any inhalation hazard from asphalt during application in its hardened state. However, physical forces such as sawing, grinding, drilling and other demolition work on this product may liberate dust containing asphalt. Burning or heating of the product may cause fumes, vapors or mists.

Acute Effects - Inhalation of dust, fumes, vapors, mist may cause nose, throat, and mucous membrane irritation. Eye contact may cause severe irritation, redness, tearing, and blurred vision. If ingested, may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea. See Section 8 for exposure controls.

Chronic Effects - In addition to cancer, prolonged or repeated skin contact may result in dryness and irritation of the skin. Long term skin exposure to asphalt can increase sensitivity to the sun and may cause discoloration. Asphalt may also cause irritation of the respiratory tract.

12. ECOLOGICAL INFORMATION
Ecotoxicity – No data available
Persistence and degradability – No data available
Bioaccumulative potential – No data available
Mobility in Soil – No data available
Other adverse effects (GHG, Ozone) - No data available

13. DISPOSAL CONSIDERATIONS
This product has not been regulated as a hazardous waste by the USEPA. Dispose in accordance with Federal, State, and Local regulations.

14. TRANSPORT INFORMATION
This product is not regulated as a hazardous material for transport under 49 CFR or for vessel transport under the IMDG Code.

15. REGULATORY INFORMATION
TOXIC SUBSTANCES CONTROL ACT (TSCA): Some components in this product are listed on the TSCA Inventory.
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA): None
SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III:
Section 302 Extremely Hazardous Substances: None.
Section 311/312 Hazard Categories: See Section 2 of the SDS.
Section 313 Reportable Ingredients: None.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Rating:</th>
<th>NFPA Rating:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health - * 1</td>
<td>Health - 1</td>
</tr>
<tr>
<td>Flammability - 1</td>
<td>Flammability - 1</td>
</tr>
<tr>
<td>Reactivity - 0</td>
<td>Reactivity - 0</td>
</tr>
</tbody>
</table>

Preparation Date: February 2019  
Revision Date: March 2019  
Revisions: Updated Header (Product names and date). Added TAMKO Seam Tape to Section 1.

Disclaimer of Liability

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