1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: TAMKO Self Adhesive Rolled Roofing
LABEL: TAMKO SA Base
USE & DESCRIPTION: Self Adhesive Rolled Asphalt Roofing Products
CHEMICAL FAMILY: Mixture

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

2. HAZARDS IDENTIFICATION

SIGNAL WORD: Warning
GHS CLASSIFICATION:
- Carcinogenicity – Category 2
- Sensitization (Skin) – Category 1B
- Skin Irritation – Category 2
- Eye Irritation – Category 2B

HAZARD STATEMENTS:
- Suspected of causing cancer.
- Causes skin and eye irritation.
- May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS:

Prevention
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands and exposed skin thoroughly after handling.

Response
- If on skin: Wash with plenty of water. Get medical advice/attention: If exposed or concerned or you feel unwell, if eye 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.

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>60-80</td>
</tr>
<tr>
<td>Polymer</td>
<td>NE</td>
<td>10-18</td>
</tr>
<tr>
<td>Fiberglass Mat*</td>
<td>NE</td>
<td>5-8</td>
</tr>
<tr>
<td>*Contains Fiberglass</td>
<td>65997-17-3</td>
<td>4.7</td>
</tr>
<tr>
<td>*Urea Formaldehyde Binder</td>
<td>9011-05-6</td>
<td>0.5-1.5</td>
</tr>
<tr>
<td>*Formaldehyde</td>
<td>50-00-0</td>
<td>0.01-0.2</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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>NE</td>
<td>0.5*</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>65997-17-3</td>
<td>15/5*</td>
<td>5***</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>0.75</td>
<td>2</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.
* Asphalt Fume as benzene-soluble inhalable aerosol (Bitumen); TWA for inhalable fraction.
** Total Nuisance Dust/Respirable Dust.
*** Inhalable Fraction.

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 mat. |
| Odor Threshold: | Not Applicable |
| pH: | Not Applicable |
| Boiling Point: | >700 °F |
| Melting Point: | >200 °F |
| Flash Point: | Not Applicable |
| Autoignition Temperature: | >460°C/860°F |
| 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: 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.

**INHALATION** – Dust may cause upper respiratory irritation.

**INGESTION** – May cause harmful effects if swallowed.

**THE FOLLOWING COMPONENT DATA IS PROVIDED FOR USER INFORMATION:**

**FORMALDEHYDE**

Cancer - This product may contain formaldehyde. IARC and NTP have classified formaldehyde as a human carcinogen based on sufficient evidence that formaldehyde causes nasopharyngeal cancer in humans, limited evidence for cancer of the nasal cavity and paranasal sinuses, and “strong but not sufficient evidence” for leukemia. The finding for leukemia reflects the epidemiologists’ finding of strong evidence in human studies coupled with an inability to identify a mechanism for induction of leukemia. The physical nature of this product may help limit any inhalation hazard from formaldehyde during application and in its hardened state.

**Acute Effects** - The major acute toxic effects caused by formaldehyde exposure via inhalation are eye, nose, and throat irritation and effects on the nasal cavity. Other effects seen from exposure to high levels of formaldehyde in humans are coughing, wheezing, chest pains, and bronchitis. Ingestion exposure to formaldehyde in humans has resulted in corrosion of the gastrointestinal tract and inflammation and ulceration of the mouth, esophagus, and stomach.

**Chronic Effects** - In addition to cancer, exposure to formaldehyde by inhalation in humans has been associated with respiratory symptoms and eye, nose, and throat irritation. Repeated contact with liquid solutions of formaldehyde has resulted in skin irritation and allergic contact dermatitis in humans.

**ASPHALT**

Cancer - This product contains cutback asphalt. In 1987 IARC classified "extracts of steam and air-refined bitumens" (cutback asphalt) as Group 2B, "possibly carcinogenic to humans." In 2011 IARC did not specifically classify cutback asphalt as Group 2B. NIOSH has also 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 after curing. However, physical forces such as sawing, grinding, drilling and other demolition work on this product may liberate cured product particles containing asphalt. Burning or heating of the product may cause fumes, vapors or mists.

**Acute Effects** - Inhalation of cured product particles, fumes, vapors, or 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.

**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.

**DOT PROPER SHIPPING NAME:** Not Applicable

**DOT HAZARD CLASSIFICATION:** Not Applicable

**DOT LABELING REQUIREMENTS:** Not Applicable

**UN/NA NUMBER:** Not Applicable

**PACKING GROUP:** Not Applicable

**IMDG CODE:** Not Applicable

**IMDG SHIPPING NAME:** Not Applicable

**IMDG HAZARD CLASS:** Not Applicable

**UN/ID NUMBER:** Not Applicable

**PACKING GROUP NUMBER:** Not Applicable

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: Immediate Health; Delayed Health; Fire Hazard
- Section 313 Reportable Ingredients: None

**California Proposition 65:** ⚠️ **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov/product.
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: April 2015
Revision Date: February 2017
Revisions: Corrected typos in Sections 3 and 7
Updated table footnotes in Section 8
Updated California Proposition 65 warning language in Section 15

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