1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Saturated Felt Underlayments
USE & DESCRIPTION: Underlayment
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: Danger
GHS CLASSIFICATION:
- Carcinogenicity – Category 1A
- Skin Irritation – Category 2
- Sensitization (Skin) – Category 1
- Eye Irritation – Category 2B
- Specific Target Organ Toxicity, Single Exposure – Category 3
- Sensitization (Respiratory) – Category 1

HAZARD STATEMENTS:
- May cause cancer.
- Causes skin and eye irritation.
- May cause an allergic skin reaction.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause respiratory irritation

PRECAUTIONARY STATEMENTS:
Prevention
- Obtain special instructions before use.
- Avoid breathing dust.
- Use only outdoors or in a well ventilated area.
- Wash hands and exposed skin thoroughly after handling.

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

Storage
- Store locked up, in a well-ventilated place.

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>Oxidized Asphalt</td>
<td>64742-93-4</td>
<td>20-30</td>
</tr>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>20-30</td>
</tr>
<tr>
<td>Felt*</td>
<td>NE</td>
<td>30-40</td>
</tr>
<tr>
<td>*Contains Wood Dust</td>
<td>NE</td>
<td>60-80</td>
</tr>
</tbody>
</table>

NE= Not established

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.

PRODUCT SHOULD NOT BE BURNT OR HEATED 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>Oxidized Asphalt</td>
<td>64742-93-4</td>
<td>NE</td>
<td>NE 0.5*</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>NE</td>
<td>NE 0.5*</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Wood Dust</td>
<td>NE 15/5**</td>
<td>NE 1/0.5***</td>
<td>NE mg/m³</td>
<td></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 (Blumen); TWA for inhalable fraction.
** Total Nuisance Dust/Respirable Dust.
*** Hardwood/Softwood; TWA for 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: Black asphalt saturated felt

Odor Threshold: Not Applicable

pH: Not Applicable

Boiling Point: >700 °F

Melting Point: >200 °F

Flash Point: Not Applicable

Autoignition Temperature: >400°C/800°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: 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:

WOOD DUST
Cancer - This product contains wood dust. NTP and IARC have classified wood dust as a known human carcinogen. IARC concluded that there was increased risk of adenocarcinomas of the nasal cavities and paranasal sinuses. The physical nature of this product may help limit any inhalation hazard from wood dust during application and in its hardened state. However, physical forces such as grinding, drilling and other demolition work on this product may liberate wood dust. Acute Effects - Exposure to wood dust can cause irritation of the eyes, nose and throat causing shortness of breath, dryness and soreness of the throat, sneezing, tearing and conjunctivitis. Chronic Effects – In addition to cancer, breathing of wood dust over a period of time can cause damage to the lung tissue and shortness of breath.

OXIDIZED ASPHALT
Cancer - This product contains oxidized asphalt. Occupational exposures to oxidized asphalt and its emissions during roofing activities have been classified by the International Agency for Research on Cancer (IARC) as “probably carcinogenic to humans” (Group 2A). IARC based this classification on its finding that available data from studies in humans points to an association between exposures to oxidized asphalts during roofing and cancers of the lung and upper aerodigestive tract. IARC also determined that there was sufficient evidence of carcinogenicity of extracts and condensates of oxidized asphalts in experimental animals. The oxidized asphalt in this product may contain small amounts of Polycyclic Aromatic Hydrocarbons (PAH’s) some of which are recognized carcinogens in humans or experimental animals. Oxidized asphalt may also cause irritation of the respiratory tract. The physical nature of this product may help limit any inhalation hazard from oxidized asphalt during application in its hardened state. However, physical forces such as grinding, drilling and other demolition work on this product may liberate dust containing oxidized asphalt. Burning or heating of the product may cause fumes, vapors or mists. Acute Effects - Inhalation of dust may cause nose, throat, respiratory tract, 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. Oxidized asphalt may also cause irritation of the upper 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

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: July, 2016
Revisions: Added TAM-FELT Underlayment to label
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
Revision Date: August 2017
Revisions: Updated GHS classification and hazard statements in Section 2

Disclaimer of Liability

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The information and recommendations are offered for the user’s consideration and examination, and it is the user’s responsibility to satisfy his or herself that they are suitable and complete for the user’s particular use.