

TAMKO BUILDING PRODUCTS, INC. SAFETY DATA SHEET – T08A2015**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****TRADE NAME:** Saturated Felt Underlayments**LABEL:** NO. 15, NO15UL, NO.15 ASTM D-4869 TYPE I, NO15 ASTM D-226 TYPE I, NO. 30, NO. 30UL, NO. 30 18 in, NO. 30 ASTM D-4869 TYPE I, NO.30 ASTM D-226 TYPE II, NO. 30 ASTM D-4869 TYPE III, NO. 30 ASTM SHAKE UNDERLAYMENT**USE & DESCRIPTION:** Underlayment**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 Irritation – Category 2
Sensitization (Skin) – Category 1
Eye Irritation – Category 2B
Specific Target Organ Toxicity, Repeated Exposure – Category 1
Specific Target Organ Toxicity, Single Exposure – Category 3
Sensitization (Respiratory) – Category 1**HAZARD STATEMENTS:**

- May cause cancer.
- Causes damage to organs through prolonged or repeated exposure.
- 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

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

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.

- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- In case of inadequate ventilation, wear respiratory protection.

Response

- If on skin: Wash with plenty of water. Specific treatment: See section 4-First Aid
- In case of fire: See Section 5. Take off contaminated clothing and wash before reuse.
- 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

Components	CAS No.	% by Weight	
Oxidized Asphalt	64742-93-4	20-30	
Asphalt	8052-42-4	20-30	NE= Not established
Felt***	NE	30-40	
***Contains Wood Dust	NE	60-80	

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 BURNED 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 MSDS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**EXPOSURE LIMITS**

Components	CAS No.	OSHA		ACGIH		Unit
		TWA	STEL	TWA	STEL	
Raw Products						
Oxidized Asphalt	64742-93-4	NE	NE	0.5**1	NE	mg/m ³
Asphalt	8052-42-4	NE	NE	0.5**1	NE	mg/m ³
Wood Dust	NE	15/5***	NE	1/.05****	NE	mg/m ³
†Contains Crystalline Silica Quartz	14808-60-7	See 1910.1000 Table Z.3	NE	0.025	NE	mg/m ³

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)

I = Inhalable Fraction

*** Total Nuisance Dust/Respirable Dust

**** Hardwood/Softwood

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:	>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: 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 has 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

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

<u>HMS Rating:</u>	<u>NFPA Rating:</u>
Health - * 1	Health - 1
Flammability - 1	Flammability - 1
Reactivity - 0	Reactivity - 0

Preparation Date: **April 2015****Disclaimer of Liability**

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