

TAMKO BUILDING PRODUCTS, INC. SAFETY DATA SHEET – T1002015

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: TAM-PRO 846 Fibered Emulsion Coating

LABEL: TAM-PRO

PRODUCT USE & DESCRIPTION: Roof Coating

CHEMICAL FAMILY: Asphalt 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 IDENTIFICATIONSIGNAL WORD: **Danger**

GHS CLASSIFICATION:

Carcinogenicity – Category 1A

Skin Irritation – Category 2

Eye Irritation – Category 2B

**HAZARD STATEMENTS:**

May cause cancer.

Causes skin and eye irritation.

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

PRECAUTIONARY STATEMENTS:Prevention

Obtain special instructions before use.

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.

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

Components	CAS No.	% by Weight
Water	7732-18-5	40-58
Asphalt	8052-42-4	30-44
Clay*	1332-58-7	5-10
*Contains Crystalline Silica (Quartz)	14808-60-7	0.1-1
Potassium Dichromate**	7778-50-7	0.1-1
**Contains Hexavalent Chromium Compound	7778-50-7	0.1-1

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:** Flammable. Avoid breathing fumes. Firefighters should not enter confined spaces without wearing 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. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.**SEE SECTION 10 FOR COMBUSTION PRODUCTS**

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED: Flammable. Handling equipment must be grounded to prevent sparking. Remove ignition sources, ventilate area, and avoid inhalation, eye or skin contact by using appropriate precautions outlined in Section 8 of this SDS. Stop leak and contain spilled material with absorbent material. Collect adsorbed product and clean up materials in appropriate container for proper disposal. Move containers from spill area. For larger spills, keep unnecessary people away. Stay upwind of and away from spill. Notify proper authorities. Prevent materials from entering drains, sewers, or waterways. Spills entering surface waters or sewers entering/leading to surface waters that cause a sheen must be reported to the National Response Center 1-800-424-8802.

WASTE DISPOSAL METHODS: This product could be classified as a hazardous waste due to ignitability. 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. Avoid all ignition sources. Storage areas should be ventilated to reduce fire and explosion hazards, and possible overexposure of personnel to fumes and vapors. Keep containers closed when not in use. Do not store near food and beverages or smoking materials. Empty containers retain residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations. See Section 13 for disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Components Raw Products	CAS No.	OSHA		ACGIH		Unit
		TWA	STEL	TWA	STEL	
Asphalt	8052-42-4	NE	NE	0.5*	NE	mg/m ³
Clay†	1332-58-7	15/5**	NE	10/3**	NE	mg/m ³
†Contains Crystalline Silica Quartz	14808-60-7	0.05	NE	0.025	NE	mg/m ³
Hexavalent Chromium Compound	7778-50-7	0.005	NE	0.05	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); TWA for inhalable fraction.

** Total Nuisance Dust/Respirable Dust.

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. Remove and clean contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	A brown heavy consistency asphalt emulsion with a slight petroleum odor.	Upper/Lower Flammability or Explosive Limits:	Not Applicable
Odor Threshold	No Data Available	Vapor Pressure:	Approximately 60mm Hg @ 100 °F
pH:	7.0 – 10.0	Vapor Density (Air = 1):	No Data Available
Boiling Point:	212 °F	Specific Gravity/Relative Density:	Approximately 1.0
Melting Point:	No Data Available	Solubility (IES):	Negligible
Flash Point:	Not Applicable	Initial Boiling Point and Boiling Range:	No Data Available
Autoignition Temperature:	>400 °F	Evaporation Rate (Butyl Acetate = 1):	No Data Available
Viscosity:	No Data Available	Flammability(Solid and Gas):	Not Applicable
Decomposition Temperature:	No Data Available	Partition Coefficient: N-Octanol/Water:	No Data Available

10. STABILITY AND REACTIVITY

STABILITY: Stable

REACTIVITY: Non-reactive.

CONDITIONS TO AVOID: Keep from heat, sparks, open flame and other sources of ignition. Avoid contact with strong oxidizing agents. Prevent vapor accumulation. **THIS PRODUCT SHOULD NOT BE HEATED OR BURNED USING A DIRECT FLAME DEVICE.**

HAZARDOUS REACTION: Polymerization will not occur.

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

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, ozone, hydrogen sulfide, oxides of aluminum, sulfur and various hydrocarbons.

11. TOXICOLOGICAL INFORMATION

EYE – Can cause eye irritation.

SKIN – Can cause skin irritation.

INHALATION – Cured product particles, fume, vapor or mist may cause upper respiratory irritation.

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.

HEXAVALENT CHROMIUM

Cancer - This product contains a hexavalent chromium compound. IARC has determined that chromium (VI) compounds are carcinogenic to humans (Group 1). The NTP has classified chromium hexavalent compounds as known to be a human carcinogen. Inhalation is the primary route for occupational exposure. The physical nature of this product may help limit any inhalation and/or dermal contact hazard from hexavalent chromium during application and in its hardened state. However, physical forces such as sawing, grinding, drilling and other demolition work on this product may liberate hexavalent chromium dust. Ingestion of this product is unlikely and should be avoided.

Acute Effects - Exposure to hexavalent chromium can cause severe irritation of the eyes, nose, throat, and skin. Ingestion of hexavalent chromium can cause severe tissue destruction, including kidney and liver damage, and may result in death.

Chronic Effects – Prolonged or repeated eye contact with hexavalent chromium may cause inflammation, burns, or blindness. Prolonged or repeated skin contact, especially with broken skin, may cause ulcers or chrome sores. Prolonged or repeated breathing of dust or mists with hexavalent chromium may ulcerate and perforate the nasal septum, chronic rhinitis, pharyngitis, inflammation of the larynx, liver and kidney damage, and increased risks of developing nasopharyngeal cancer and lung cancer.

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. This product also contains oxidized asphalt. Occupational exposures to oxidized asphalt and its emissions during roofing activity has been classified by the International Agency for Research on Cancer (IARC) as "probably carcinogenic to humans" (Group 2A). 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, or vapors 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.

OTHER INGREDIENTS

This product contains small amounts of aluminum powder. It has been suggested, but not confirmed, that very high levels of aluminum dust may affect the brain and lungs (pneumoconiosis). The physical nature of this product may help limit any inhalation hazard from aluminum powder during installation and in its hardened state. However, physical forces such as grinding, drilling and other demolition work on the hardened product may liberate aluminum dust.

12. ECOLOGICAL INFORMATION:

Ecotoxicity – No specific data available on this product. Product may cause mechanical damage to aquatic organisms.

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 could be classified as a hazardous waste due to ignitability. Dispose in accordance with Federal, State, and Local regulations. Prevent materials from entering drains, sewers, or waterways. Do not dump on the ground. Do not burn.

14. TRANSPORT INFORMATION:

DOT PROPER SHIPPING NAME: Elevated Temperature Liquid N.O.S.

DOT HAZARD CLASSIFICATION: N.O.S. 0, not hazardous for DOT transport.

DOT LABELING REQUIREMENTS: None.

UN/NA NUMBER: UN 3257

PACKING GROUP: PG III

IMDG CODE: Not hazardous 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: 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**

<u>HMS Rating:</u>	<u>NFPA Rating:</u>
Health - * 2	Health - 2
Flammability - 2	Flammability - 2
Reactivity - 0	Reactivity - 0

Preparation Date: **April 2015**Revision Date: **February 2017**

Revisions: Corrected typos in Sections 2 and 3

Updated table footnotes and changed OSHA TWA for crystalline silica quartz in Section 8

Updated California Proposition 65 warning language in Section 15

Disclaimer of Liability

The information and recommendations contained herein are to the best of **TAMKO Building Products, Inc.**'s knowledge and belief, accurate and reliable as of the date issued. **TAMKO Building Products, Inc.** does not warrant or guarantee their accuracy or reliability, and **TAMKO Building Products, Inc.** shall not be liable for any loss or damage arising out of the use thereof.

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.