

# MATERIAL SAFETY DATA SHEET

MSDS Number: T030000

Revision Date: May 2007

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** Roofing Felt

**LABEL:** TAMKO

**USE & DESCRIPTION:** Roofing Material

**CHEMICAL FAMILY:** Mixture

**MANUFACTURED FOR:**

TAMKO Building Products, Inc.  
P.O. Box 1404  
Joplin, MO 64802-1404

**EMERGENCY TELEPHONE NUMBERS;**

General Information: 1-417-624-6644 (8a.m. – 5 p.m. CST)  
Chemtrec: 1-800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Cas No.	% by Wt.	Exposure Limits*				
			OSHA		ACGIH		Unit
			TWA	STEL	TWA	STEL	
Petroleum asphalt	8052-42-4	<70	5 fume	NE	0.5 fume	NE	mg/M <sup>3</sup>
Felt	65997-17-3 NE	<50					mg/M <sup>3</sup>

See Section 8 for additional relevant exposure limits

NE = Not established

\* NOTE: Due to the form of the product, hazardous exposures are not expected to occur. Exposure limits are provided for information purposes only.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

WARNING!

UNDER NORMAL CONDITIONS OF USE, THE PRODUCT NOT EXPECTED TO CREATE ANY EMERGENCY HAZARDS

INHALATION OF PRODUCT DUST MAY CAUSE TEMPORARY UPPER RESPIRATORY IRRITATION – REMOVE AFFECTED INDIVIDUALS TO FRESH AIR

SKIN IRRITATION MAY BE TREATED BY WASHING AREA WITH SOAP AND WATER

EYE IRRITATION MAY BE TREATED BY FLUSHING EYES WITH LARGE AMOUNTS OF WATER

<u>HMIS Rating:</u> Health - 1 Flammability - 1 Reactivity - 0	<u>NFPA Rating:</u> Health - 1 Flammability - 1 Reactivity - 0
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#### Potential Health Effects:

**EYE CONTACT:** If particles enter eye, may cause irritation resulting in tearing, stinging, redness or swelling.

**SKIN CONTACT:** Primary route of exposure is skin contact. Repeated contact may cause skin irritation due to roughness of product. Redness, drying and cracking of the skin (dermatitis) may occur following prolonged and repeated contact. Prolonged or repeated skin contact could result in absorption of hazardous components.

**INGESTION:** However, this product may cause irritation of the digestive tract followed by vomiting. Avoid aspiration of vomit into the lungs which can cause inflammation or pneumonitis.

**INHALATION:** Exposure to fumes, vapors, or mists may cause irritation of the nose and throat, and possible signs of central nervous system depression (symptoms may include headache, dizziness, loss of coordination, and drowsiness). Loss of consciousness can occur in poorly ventilated or confined spaces. Additional signs and symptoms of exposure may include reduced appetite and abnormal fatigue.

Use of this product in well-ventilated working conditions is not expected to cause adverse effects.

**CHRONIC EFFECT/CARCINOGENICITY/SPECIAL TOXIC EFFECTS:** This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. The International Agency for Research on Cancer (IARC) has determined there is inadequate evidence that asphalt alone is carcinogenic to humans, and that there is inadequate evidence for the carcinogenicity of undiluted air-refined asphalts in experimental animals. The National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes.

This product may contain small amounts of Polycyclic Aromatic Hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals.

#### 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. Use a waterless hand cleaner 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. Avoid aspiration of vomit into the lungs which can cause inflammation or pneumonia. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. Get immediate medical attention.

**INHALATION:** If inhalation 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. Get immediate medical attention.

**NOTES TO PHYSICIAN:** This product is a mechanical irritant and is not expected to produce any chronic health effects from exposure. Treatment should be based on removing the source of irritation with treatment of symptoms as necessary.

#### 5. FIRE FIGHTING MEASURES

**FLASH POINT (METHOD):** Not applicable

**FLAMMABLE LIMITS:** Not applicable

**AUTOIGNITION TEMPERATURE:** 460°C / 860 °F

**EXTINGUISHING MEDIA:** Dry chemical and carbon dioxide, or foam preferred. Avoid use of straight-stream water.

**SPECIAL FIRE FIGHTING PROCEDURES:** Combustible. Avoid breathing fumes. Firefighters should not enter confined spaces without wearing NIOSH approved positive pressure breathing apparatus (SCBA) with full mask and full protective equipment.

**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 will cause thick black smoke.

## 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. Do not burn.

**WASTE DISPOSAL METHODS:** Dispose in accordance with applicable Federal, State, and Local regulations.

## 7. HANDLING AND STORAGE

### **STORAGE TEMPERATURE:**

Store away from heat and all ignition sources and open flames in accordance with applicable laws and regulations.

### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Follow protective controls outlined in this MSDS (see Section 8).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Normally not needed in well-ventilated areas. If applicable standards are exceeded or are likely to be exceeded, use a NIOSH/MSHA approved, contaminant-specific, air-purifying respirator. If such 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 use, fitting, and training standards and regulations.

**EYE PROTECTION:** Chemical safety goggles or face shield needed if eye contact is possible.

**SKIN:** Leather or cotton gloves if necessary.

**VENTILATION:** Use only with adequate ventilation to maintain exposures below appropriate exposure limits.

**EXPOSURE GUIDELINES:** See section 2 for component materials.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Dark mat. Some products may have granular surface.

**BOILING POINT:** >700 °F

**Ph:** Not applicable

**MELTING POINT:** >200 °F

**SPECIFIC GRAVITY:** Variable

**VAPOR PRESSURE:** Not applicable

**VAPOR DENSITY (AIR = 1):** Not applicable

**% VOLATILE, BY VOLUME:** Not applicable

**SOLUBILITY IN WATER:** Negligible

**EVAPORATION RATE (BUTYL ACETAT = 1):** <0.1

**OTHER PHYSICAL AND CHEMICAL DATA:** None

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Except when application requires heat welding or torch application methods for installation to roof, keep from heat, sparks, open flame, and other sources of ignition. It is the sole responsibility of the roofing applicator to enforce fire safety precautions and to ensure safety at all times. Torches should be extinguished when not in use and should not be left unattended. There should be a sufficient number of fire extinguishers on the roof to handle any contingency that might develop (min. 1 per torch). The roofing applicators should be trained in the proper use of fire extinguishers. Avoid contact with strong oxidizing agents.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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

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

**11. TOXICOLOGICAL INFORMATION:** According to a December 2000 NIOSH report (No. 2001-110) titled "Hazard Review - Health Effects of Occupational Exposure to Asphalt," research has identified low levels of Polycyclic Aromatic Hydrocarbons (PAH's) in laboratory generated asphalt fumes. Benzo(a)pyrene, a PAH and known carcinogen, has been identified in field-generated asphalt fumes. Asphalt roofing fume condensates and fractions have been shown to contain chemicals known as PAH's, which have a chemical structure similar to known carcinogens and genotoxins. Laboratory-generated asphalt fumes have been shown to be genotoxic. Laboratory-derived roofing asphalt fume condensates have been shown to be mutagenic, clastogenic, and inhibit intracellular communication in mammalian cells.

Laboratory studies have shown chemical extracts of asphalt fumes to be carcinogenic to the skin of experimental animals following lifetime exposures, and to show positive mutagenicity in screening bioassays. The relevance of these studies to human exposures is not known at this time. Inhalation studies have not been conclusive regarding asphalt's carcinogenic potential; however, adverse lung effects were seen in several species of laboratory animals.

Skin application of undiluted air-refined (oxidized) asphalt to experimental animals has not resulted in skin tumors. The results were weakly positive when the samples were applied in a solvent vehicle.

**12. ECOLOGICAL INFORMATION:** No specific data on this product.

**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 either 49 CFR or the IMDG Code for vessel transport.

## **15. REGULATORY INFORMATION**

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** No 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**

- Preparation Date: May 2000
- Revised:
  - July 2002
  - October 2002 (Formatting issues)
  - August 2004 (DOT Transport Information and Prop 65 language)
  - August 2005 (Changes in emergency contact information)
  - June 2006 (Company name change)
  - May 2007 (Formatting Issues)
- Replaces: None

Disclaimer of Liability

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