

MATERIAL SAFETY DATA SHEET - T07F2011

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: TAMKO Composite Railings
LABEL: TAM-RAIL Post Sleeve, Baluster, Rail
USE & DESCRIPTION: Railing
CHEMICAL FAMILY: Mixture

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

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

EMERGENCY OVERVIEW:

INHALATION OF PRODUCT DUST MAY CAUSE TEMPORARY UPPER RESPIRATORY IRRITATION.

MAY CAUSE SKIN IRRITATION.

MAY CAUSE EYE IRRITATION.

MAY CAUSE HARMFUL EFFECTS IF SWALLOWED.

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

<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 dust enters eye, may cause irritation resulting in tearing, stinging, redness or swelling.

Skin Contact: Repeated contact with dust from product may cause skin irritation. Redness, drying and cracking of the skin (dermatitis) may occur following prolonged and repeated contact.

Ingestion: Ingestion of 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 dust can cause irritation of the nose and throat. Use of this product in well-ventilated working conditions is not expected to cause adverse effects.

Chronic Effect/Carcinogenicity/Special/Toxic:

Can cause cancer.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	% by Weight
Plastic	NE	<80
Wood Dust	NE	<20
Talc	14807-96-6	<8
Proprietary Additives	NE	<10
Titanium dioxide	13463-67-7	>0.1

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. 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 dust 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 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 face mask and full protective equipment.

UNUSUAL FIRE OR EXPLOSION HAZARDS: When heated, fumes may burn if ignition source is provided. Burning product will cause thick black smoke. Dust accumulation due to sawing and/or drilling in confined space can cause an explosion if ignited.

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, all ignition sources and open flames in accordance with applicable laws and regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Follow recommended work practices and use recommended personal protective clothing and equipment. Dust from sawing, drilling, etc. is combustible and could cause explosion in confined space. **THIS PRODUCT SHOULD NOT BE HEATED OR BURNED USING A DIRECT FLAME DEVICE.**
See Section 8 of this MSDS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Components Raw Products	CAS No.	OSHA		ACGIH		
		TWA	STEL	TWA	STEL	Unit
Talc	14807-96-6	2	NE	2	NE	mg/m ³
Wood Dust	NE	15/ 5*	NE	1/0.5**	NE	mg/m ³
Titanium dioxide*	13463-67-7	15**	NE	10**	NE	mg/m ³
Plastic	NE	15/5*	NE	10/3*	NE	mg/m ³

NE= Not established

* Total Nuisance Dust/Respirable Dust

** Hardwood/Softwood

RESPIRATORY PROTECTION: Normally not needed in well-ventilated areas. However, if applicable exposure standards are exceeded or can be exceeded, introduce ventilation to remove dust. If increased ventilation is not possible, use a NIOSH/MSHA 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 use, fitting, and training standards and regulations.

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

EYE PROTECTION: Safety glasses with side-shields should be used if eye contact is possible.

SKIN: Should use leather or cotton gloves and long-sleeve cotton shirt if exposure to dust is possible. Should wear footwear with adequate traction to prevent slipping and falling.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Colored wood grained planks.

ODOR THRESHOLD: Not Applicable

pH: Not Applicable

BOILING POINT: Not Applicable

MELTING POINT/ FREEZING POINT: Not Applicable

INITIAL BOILING POINT AND BOLING RANGE: Not Applicable

FLASH POINT: Not Applicable

EVAPORATION RATE (BUTYL ACETATE = 1): Not Applicable

FLAMMABILITY (SOLID AND GAS): 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): Not Applicable

PARTITION COEFFICIENT: N-OCTANOL/WATER: Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

DECOMPOSITION TEMPERATURE: Not Applicable

VISCOSITY: Not Applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Keep from heat, sparks, open flame and other sources of ignition. Avoid contact with strong oxidizing agents. **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 and selected amines.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, ozone, hydrogen sulfide, hydrogen chloride, and various hydrocarbons during heating or burning. These combustion products are not expected unless product is heated or burned.

11. TOXICOLOGICAL INFORMATION

EYE – May cause eye irritation.

SKIN – May 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. However, physical forces such as grinding, and drilling 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.

TITANIUM DIOXIDE

Cancer - Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as Group 2B "possibly carcinogen to humans". IARC determined that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation. The series of biological events or steps that produced the rat lung cancers (e.g. particle deposition, impaired lung clearance, cell injury, fibrosis, mutations and ultimately cancer) have also been seen in people working in dusty environments. Therefore, IARC considered the animal data relevant to people doing jobs with exposures to titanium dioxide dust.

Acute Effects- Skin exposure to titanium dioxide is a mild irritant and may cause mechanical irritation (irritation from frictional action but is believed not to be absorbed through intact skin. Dust may cause mechanical irritation (irritation from frictional action) of eyes. May cause gastrointestinal (digestive) tract irritation with nausea, vomiting and diarrhea if swallowed. It is not absorbed following ingestion. Dust may be harmful if inhaled and causes respiratory tract irritation. May affect respiration and blood.

Chronic Effects - Heavy occupational dust exposures may cause chronic rhinitis, chronic bronchitis, impaired pulmonary function, resemblance of silicosis without any fibrosis, functional change in trachea or bronchi, chronic pulmonary edema.

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.

UN number: Not applicable

UN Proper Shipping Name: Not applicable

Packing Group, if applicable: Not applicable

Environmental Hazards: Not applicable

Transport in bulk: Not applicable

Special Precautions: 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

- Preparation Date: March 2006
- Amended to add additional information February, 2012

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.