

# MATERIAL SAFETY DATA SHEET

MSDS Number: WP018996

Revision Date: August 2005

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** TAMKO TWP-1 Quick Dry Solvent Base Primer

**USE & DESCRIPTION:** High-tack primer for waterproofing

**CHEMICAL FAMILY:** None

**MANUFACTURED FOR:**

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

**EMERGENCY TELEPHONE NUMBERS;**

General Information: 1-904-284-7571 (8 a.m. - 5 p.m. EST)  
1-620-429-1800 (8 a.m. - 5 p.m. CST)  
1-417-624-6644 (8 a.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	
Toluene	108-88-3	30-40	200	300	50 -skin	NE	ppm
Hydrocarbon Resin	70969-61-8	20-25	NE	NE	NE	NE	--
Styrene-Isoprene-Styrene Copolymer	25038-32-8	10-12	NE	NE	NE	NE	--
Acetone	67-64-1	20-30	750	1000	500	750	ppm
Coumarone Indene Resin	68132-02-5	4-6	NE	NE	NE	NE	--

See Section 8 for additional relevant exposure limits

NE = Not established

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:**

WARNING!

FLAMMABLE

VAPORS, MISTS OR FUMES MAY IRRITATE THE EYES AND RESPIRATORY TRACT

MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION

DIRECT CONTACT MAY CAUSE EYE AND SKIN IRRITATION

CONTAINS MATERIAL THAT MAY CAUSE REPRODUCTIVE EFFECTS

ASPIRATION HAZARD IF SWALLOWED

PROLONGED OR REPEATED EXPOSURE MAY DAMAGE NERVOUS SYSTEM

## Potential Health Effects

### ROUTES OF EXPOSURE

Eye and skin contact, inhalation, ingestion

#### EYE CONTACT:

May cause moderate to severe eye irritation resulting in tearing, stinging, redness and swelling. Vapors, mists or fumes may be irritating.

#### SKIN CONTACT:

May cause slight to moderate skin irritation. Dermatitis, characterized by redness, drying and cracking of the skin, may occur due to de-fatting following prolonged and repeated exposure.

#### SKIN ABSORPTION:

Absorption from prolonged or repeated skin contact may cause systemic toxicity.

#### INGESTION:

Expected to have slight toxicity when ingested. However, this product may cause irritation of the digestive tract with subsequent vomiting and central nervous system depression (see "Inhalation" for symptoms). Aspiration into the lungs can occur and cause inflammation and damage with chemical pneumonia.

#### INHALATION:

Exposure to fumes, vapors or mists may cause irritation of the nose and throat, and possible signs of central nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, and fatigue). Loss of consciousness can occur in poorly ventilated or confined spaces, depending upon the concentration and duration of exposure.

Contains a component (toluene) that may produce cardiac sensitization and cardiac arrhythmias when inhaled in high concentrations.

### CHRONIC EFFECT/CARCINOGENICITY/SPECIAL TOXIC EFFECTS

This product contains toluene. Prolonged or repeated overexposure to toluene has been reported to cause liver and kidney damage. It has also been associated with potential reproductive and developmental effects. See Section 11, Toxicological Information, for additional information.

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as "Solvent or Painters Syndrome"). Intentional misuse by deliberately inhaling vapors of this product may be harmful or fatal.

This product (or components) is not listed by NTP, OSHA, or IARC.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Pre-existing medical conditions that may be aggravated by exposure include disorders of the skin, kidney, liver, cardiovascular system, and respiratory tract, including asthma.

## 4. FIRST AID MEASURES

### EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the eye lids to ensure thorough rinsing. Seek medical attention.

### SKIN CONTACT:

Remove contaminated clothing and shoes. Clean exposed skin with warm soapy water. Seek medical attention if irritation persists or rash develops.

### INGESTION:

If swallowed, do not induce vomiting. Drink a large volume of water and get immediate medical attention. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.

### INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

### NOTES TO PHYSICIAN:

This product contains petroleum distillates/solvents that, when aspirated into the lung, may result in chemical pneumonia. If large volumes have been swallowed, gastric lavage should be considered. Patients may be predisposed to pneumonia during convalescence, and should be kept under observation. Contact a Poison Center for additional treatment information.

## 5. FIRE FIGHTING MEASURES

### FLASH POINT (METHOD)

<20 °F (TCC)

### FLAMMABLE LIMITS (% VOLUME IN AIR)

Lower = 2.5

Upper = 11.2

### AUTO IGNITION TEMPERATURE

Not available.

### EXTINGUISHING MEDIA

Carbon dioxide, dry chemical, foam, or water fog. Avoid use of straight-stream water.

### SPECIAL FIRE FIGHTING PROCEDURES

Flammable. Avoid breathing irritating and potentially toxic fumes. Firefighters should not enter confined spaces without wearing NIOSH approved positive pressure 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

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment). Vapors may travel considerable distances to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, if confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

## 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 or skin contact by using appropriate precautions outlined in this MSDS (see Section 8). 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 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

Dispose in accordance with applicable Federal, State and Local regulations.

## 7. HANDLING AND STORAGE

### STORAGE TEMPERATURE

Store away from heat and all ignition sources or 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). Avoid all ignition sources. Storage areas should be ventilated to reduce fire and explosion hazards, and possible overexposure of personnel to fumes and vapors. Vapors may accumulate and travel to ignition sources distant from the handling site. Flash fire can result. 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.

Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment.

## 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 spraying or eye contact is possible.

**SKIN**

Chemical resistant gloves, apron, or other protective clothing needed to prevent skin contact. Consider physical requirements and other materials present when selecting protective clothing. Suggested materials for gloves include, but are not limited to the following: Teflon™, Barricade™, Responder™.

**VENTILATION**

Use only with adequate ventilation to maintain exposures below appropriate exposure limits. Local exhaust ventilation and/or enclosure of the process may be required. All equipment must be explosion proof.

**EXPOSURE GUIDELINES**

See section 2 for component materials.

IDLH (Toluene) = 500 ppm

IDLH (Acetone) = 2500 ppm

**Other Information**

Avoid prolonged or repeated skin contact. Remove contaminated clothing; launder or dry clean before reuse. Workers should wash their hands before breaks, meals, smoking and using toilet facilities. Do not use solvents or thinners to remove material from skin.

A fresh water supply, including an eyewash for emergency first aid, and washing facilities should be readily available.

**9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE AND ODOR**

Semi-clear liquid. Petroleum odor.

**BOILING POINT**

145 °F

**PH**

Not applicable

**MELTING POINT**

Not applicable

**SPECIFIC GRAVITY**

Approximately 1

**VAPOR PRESSURE**

320 mm hg @ 100 °F

**VAPOR DENSITY (AIR = 1)**

1.4

**% VOLATILE, BY VOLUME**

Not available

**SOLUBILITY IN WATER**

Negligible.

**EVAPORATION RATE (BUTYL ACETATE = 1)**

3.4

**OTHER PHYSICAL AND CHEMICAL DATA**

None

**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. Prevent vapor accumulation.

**HAZARDOUS POLYMERIZATION**

Will not occur.

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong acids or bases, oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon monoxide, carbon dioxide, acrolein, halogenated compounds, carboxylic acids, ketones, aldehydes, and various hydrocarbons.

**11. TOXICOLOGICAL INFORMATION****LD50/LC50 INFORMATION**Acetone

LD50 (oral, rat)	5800 mg/kg
LD50 (oral, mouse)	3 gm/kg
LC50 (inhl, rat, 8 hr)	50100 mg/M3

Toluene

LD50 (oral, rat)	636 mg/kg
LD50 (skin, rabbit)	14100 ul/kg
LC50 (inhl, rat, 4 hr)	49 gm/M3

**SENSITIZATION**

Not determined

**GENERAL**

Acute or chronic overexposure to this product or its components may cause adverse effects to the following organ systems: skin, nervous system, inner ear, cardiovascular system, kidney, liver.

This product contains toluene. Rats chronically exposed via inhalation to high levels of toluene exhibited high frequency hearing deficits. Although the effect of toluene on the human auditory system is uncertain, solvent abusers exposed to high doses of toluene exhibit signs of hearing loss, and occupational exposure to solvents containing toluene have resulted in detectable hearing loss. This effect may have been compounded by noise in the work environment.

Intentional abuse of toluene has been linked to damage of the brain, liver and kidney. In addition, studies involving abuse during pregnancy clearly indicate that toluene is a developmental toxin. Similar observations have been made in laboratory animals, general in association with maternal toxicity. Chronic abuse may not appropriately represent the effects of typical occupational exposures. A recent epidemiological study of women working in laboratories did not find an increased risk of birth defects with occupational exposure to toluene.

## **12. ECOLOGICAL INFORMATION**

No specific data on this product. The solvent components are expected to volatilize in the environment and to be moderately toxic to both freshwater and marine organisms, and are not expected to bioaccumulate. The bioaccumulation potential of the whole product is unknown.

## **13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with federal, state, and local regulations. Prevent materials from entering drains, sewers, or waterways. Do not dump on the ground.

## **14. TRANSPORT INFORMATION**

### **DOT PROPER SHIPPING NAME**

Coating Solution

### **DOT HAZARD CLASSIFICATION**

3, hazardous for transport under 49 CFR

### **DOT LABELING REQUIREMENTS**

Flammable Liquid

### **UN/NA NUMBER**

UN1139

### **PLACARDS**

Flammable

### **IMDG CODE**

Hazardous for vessel transport under the IMDG Code

### **IMDG SHIPPING NAME**

Coating Solution

### **IMDG HAZARD CLASS**

3

### **UN/ID NUMBER**

UN 1139

**PACKING GROUP NUMBER**

PG II

**15. REGULATORY INFORMATION****TOXIC SUBSTANCES CONTROL ACT (TSCA)**

The components in this product are listed on the TSCA Inventory.

**COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA)**

The material contains toluene and acetone. The reportable quantities for toluene and acetone are 1000 lb and 5000 lb respectively. Any release of this product that results in a release of acetone or toluene equal to or exceeding the reportable quantity must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 117,302.

**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:**

Chemical Name	CAS Number	Concentration (% by Wt.)
Acetone	67-64-1	20 - 30
Toluene	108-88-3	30 - 40

**CALIFORNIA PROPOSITION 65**

This product does not contain chemicals known to the State of California to cause cancer. This product contains a chemical (toluene) known to the State of California to cause birth defects or other reproductive harm.

**CANADIAN REGULATIONS**

This product has been classified in accordance with the hazard criteria of the CPR and MSDS contains the information required by the CPR.

**WHMIS CLASSIFICATION**

Class D2B

Class B2

## 16. OTHER INFORMATION

NFPA Ratings:

Health – 2; Flammability – 3; Reactivity - 0

Preparation Date: July 15, 1998

Revised: August 2004 for DOT Transport Information; August 2005 for changes in  
Emergency Contact Information.

Replaces: None

### Disclaimer of Liability

The information and recommendations contained herein are to the best of **TAMKO Roofing Products'** knowledge and belief, accurate and reliable as of the date issued. **TAMKO Roofing Products** does not warrant or guarantee their accuracy or reliability, and **TAMKO Roofing Products** 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 not the user's responsibility to satisfy itself that they are suitable and complete for its particular use.