



**SECTION 1: PRODUCT AND COMPANY INFORMATION**

**PRODUCT NAME:** UNITED COATINGS ROOF MATE TCM COATING

**TRADE NAME:** N/A

**MANUFACTURER:** GAF

**ADDRESS:** 1 Campus Drive, Parsippany, NJ 07054

**24-HOUR EMERGENCY PHONE (CHEMTREC):** 800 – 424 – 9300

**INFORMATION ONLY:** 800 – 766 – 3411

**PREPARED BY:** Corporate EHS

**APPROVED BY:** Corporate EHS

**SECTION 2: HAZARD IDENTIFICATION**

**NFPA and HMIS RATINGS:**

	NFPA Hazard Rating		HMIS Hazard Rating
<b>Health</b>	2	<b>Health</b>	2
<b>Flammable</b>	0	<b>Flammable</b>	0
<b>Reactive</b>	0	<b>Reactive</b>	0
<b>Special Hazards</b>	-	<b>Personal Protection</b>	X

**GHS LABEL ELEMENTS:**

**GHS CLASSIFICATION:** Eye Irritant - Category 2B  
 Skin Irritant - Category 2  
 Target Organ (SE) - Category 3  
 Target Organ (RE) - Category 2  
 Carcinogen - Category 2  
 Acute Toxicity - Category 4  
 Hazardous to the Aquatic Environment (chronic) - Category 1  
 Hazardous to the Aquatic Environment (acute) – Category 1



SIGNAL WORD: Danger

**HAZARD STATEMENTS:** May cause damage to organs through prolonged or repeated exposure.  
Causes skin irritation.  
Causes eye irritation  
May cause respiratory irritation.  
Harmful if inhaled or swallowed.  
Suspected of causing cancer.  
Very toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Wash face, hands and any exposed skin thoroughly after handling.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
IF exposed or concerned: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

**PRIMARY ROUTE OF EXPOSURE:** Inhalation, Skin Contact, Eye Contact

#### SIGNS & SYMPTOMS OF EXPOSURE

**EYES:** Exposure to vapors can cause conjunctivitis or irritation to the eyes.

**SKIN:** Slight irritation of the skin. Prolonged contact can cause reddening of the skin.

**INGESTION:** Not expected to be ingested.

**INHALATION:** Vapors or mists can cause mental sluggishness, irritation of nasal passages, throat and lungs. Can cause headaches.

**ACUTE HEALTH HAZARDS:** Excessive exposure can cause pulmonary edema.

**CHRONIC HEALTH HAZARDS:** None known

**CARCINOGENICITY:** IARC has determined that occupational exposure to Titanium Dioxide is possibly carcinogenic to humans (Group 2B). IARC concluded lung tumors were observed in rats following high dose exposure by inhalation and in female rats exposed by intra-tracheal instillation. Other studies have shown no tumors in rats following inhalation exposure and no tumors in mice or rats following oral exposure.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS #	% (BY WT)	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Aluminum Trihydrate	21645-51-2	30 – 40	5 mg/m <sup>3</sup> – resp. 15 mg/m <sup>3</sup> – total	3 mg/m <sup>3</sup> – resp. 10 mg/m <sup>3</sup> – total	REL: 5 mg/m <sup>3</sup> – resp., 10 mg/m <sup>3</sup> – total
Zinc Oxide	1314-13-2	2 – 10	5 mg/m <sup>3</sup> – resp. 15 mg/m <sup>3</sup> – total	2 mg/m <sup>3</sup> – resp. 10 mg/m <sup>3</sup> – resp. STEL	REL: 5 mg/m <sup>3</sup> , 15 mg/m <sup>3</sup> – ceiling
Titanium Dioxide	13463-67-7	2 – 10	15 mg/m <sup>3</sup> – total	10 mg/m <sup>3</sup> – total	REL: lowest feasible concentration
Ethylene Glycol	107-21-1	2 – 5	NE	100 ppm – ceiling	NE
Non-hazardous ingredients	-	45 – 55	NE	NE	NE

NE = Not Established

**SECTION 4: FIRST AID MEASURES****FIRST AID PROCEDURES**

- EYES:** Flush eyes with water for 15 minutes. If irritation persists, call a physician.
- SKIN:** Wash area thoroughly with soap and water.
- INHALATION:** Remove person to an area that has fresh air. If breathing has stopped, administer artificial respiration. Contact physician immediately.
- INGESTION:** If patient is awake, induce vomiting by giving two glasses of water and pressing down at back of throat. Call physician immediately. Never give anything by mouth to an unconscious person.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Excessive exposure can cause pulmonary edema.

**SECTION 5: FIRE FIGHTING PROCEDURES**

**SUITABLE EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, Dry chemical or foam.

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<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Carbon dioxide and carbon monoxide.
<b>RECOMMENDED FIRE FIGHTING PROCEDURES:</b>	Self-contained breathing apparatus recommended.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	None

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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<b>ACCIDENTAL RELEASE MEASURES:</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Dam up area to prevent spreading. Caution – area will be slippery. Use absorbent material to dry up the compound.
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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING AND STORAGE:**

Store in a well ventilated area at 50 – 80 °F.  
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment.

<b>OTHER PRECAUTIONS:</b>	Protect from freezing.
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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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<b>ENGINEERING CONTROLS / VENTILATION:</b>	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure limits.
<b>RESPIRATORY PROTECTION:</b>	Use NIOSH-approved respirator.
<b>EYE PROTECTION:</b>	Safety goggles or safety glasses with side shields.
<b>SKIN PROTECTION:</b>	Wear appropriate impermeable gloves and protective clothing as necessary to prevent skin contact.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	N/A

**WORK HYGIENIC PRACTICES:** Wash exposed skin prior to eating, drinking, or smoking and at the end of each shift.

**EXPOSURE GUIDELINES:** Not applicable.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE &amp; ODOR:</b>	Heavy white liquid with an ammonia odor.		
<b>FLASH POINT:</b>	> 240 °F	<b>LOWER EXPLOSIVE LIMIT:</b>	No data
<b>METHOD USED:</b>	TCC	<b>UPPER EXPLOSIVE LIMIT:</b>	No data
<b>EVAPORATION RATE:</b>	1.0	<b>BOILING POINT:</b>	212 °F
<b>pH (undiluted product):</b>	No data	<b>MELTING POINT:</b>	No data
<b>SOLUBILITY IN WATER:</b>	Dilutable in water	<b>SPECIFIC GRAVITY:</b>	1.48
<b>VAPOR DENSITY:</b>	No data	<b>PERCENT VOLATILE:</b>	No data
<b>VAPOR PRESSURE:</b>	No data	<b>MOLECULAR WEIGHT:</b>	No data
<b>VOC WITH WATER (LBS/GAL):</b>	No data	<b>WITHOUT WATER (LBS/GAL):</b>	No data

**SECTION 10: STABILITY AND REACTIVITY**

**THERMAL STABILITY:** **STABLE**  **UNSTABLE**

**CONDITIONS TO AVOID (STABILITY):** None known

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon monoxide and carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**TOXICOLOGICAL INFORMATION:** No information available.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** No information available.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.

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**SECTION 14: TRANSPORTATION INFORMATION**

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**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**

**TSCA:** This product and its components are listed on the TSCA 8(b) inventory.

**CERCLA:** Ethylene Glycol, 107-21-1, 5,000 lbs.

**SARA**

**311/312 HAZARD CATEGORIES:** Acute Health Hazard, Chronic Health Hazard

**313 REPORTABLE INGREDIENTS:** None

**CALIFORNIA PROPOSITION 65:** Titanium dioxide: CAS 13463-67-7

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Aluminum Trihydrate	21645-51-2	No	No	No	No	No	No
Zinc Oxide	1314-13-2	Yes	No	Yes	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	No	No	Yes	Yes	Yes	Yes
Ethylene Glycol	107-21-1	Yes	Yes	Yes	Yes	Yes	Yes

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#### SECTION 16: OTHER INFORMATION

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**ADDITIONAL COMMENTS:** None

**DATE OF PREVIOUS SDS:** November 2015

**CHANGES SINCE PREVIOUS SDS:** Conversion to Quest SDS .

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This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.