

# SAFETY DATA SHEET



## 1. Identification

**Product identifier** UNITED COATINGS ROOF MATE HT COATING

**Other means of identification**

**Product Code**

**Recommended use** Acrylic elastomeric coating.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** GAF  
1 Campus Drive  
Parsippany, NJ 07054 USA

**Telephone** 1-800-766-3411

**Emergency phone number** CHEMTREC [DAY OR NIGHT] 1-800-424-9300  
Within USA and CANADA 1-800-424-9300  
Outside USA and Canada: 1 703-741-5970  
Collect Calls Accepted

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Carcinogenicity Category 2

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3

Hazardous to the aquatic environment, long-term hazard Category 3

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Warning

**Hazard statement** Suspected of causing cancer. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If exposed or concerned: Get medical advice/attention.

**Storage** Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminum Trihydroxide		21645-51-2	20 to <30
Calcium Carbonate		1317-65-3	1 to <5
TITANIUM DIOXIDE		13463-67-7	1 to <5
Zinc Oxide		1314-13-2	1 to <5
Ammonium Hydroxide 20-30%		1336-21-6	0.1 to <1
CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER		10605-21-7	0.1 to <1
Paraffinic Oil		64742-65-0	0.1 to <1
PARAFFINIC PETROLEUM OIL		64742-54-7	0.1 to <1
Non-Hazardous Ingredients			60 to <70

### 4. First-aid measures

#### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

#### Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

#### Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

#### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

#### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

#### General information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

#### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### General fire hazards

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

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 touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

**7. Handling and storage****Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Ammonium Hydroxide 20-30% (CAS 1336-21-6)	PEL	35 mg/m3	
Calcium Carbonate (CAS 1317-65-3)	PEL	50 ppm 5 mg/m3	Respirable fraction.
Paraffinic Oil (CAS 64742-65-0)	PEL	15 mg/m3 5 mg/m3	Total dust. Mist.
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	2000 mg/m3 500 ppm 15 mg/m3	Total dust.
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m3 5 mg/m3 15 mg/m3	Respirable fraction. Fume. Total dust.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Aluminum Trihydroxide (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
Ammonium Hydroxide 20-30% (CAS 1336-21-6)	STEL	35 ppm	
Paraffinic Oil (CAS 64742-65-0)	TWA	25 ppm 5 mg/m3	Inhalable fraction.
PARAFFINIC PETROLEUM OIL (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
Zinc Oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Ammonium Hydroxide 20-30% (CAS 1336-21-6)	STEL	27 mg/m3 35 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
	TWA	18 mg/m3 25 ppm	
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Paraffinic Oil (CAS 64742-65-0)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
Zinc Oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Dust.
		5 mg/m3	Fume.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

If contact is likely, safety glasses with side shields are recommended.

**Skin protection****Hand protection**

For prolonged or repeated skin contact use suitable protective gloves.

**Other**

Wear suitable protective clothing.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance****Physical state**

Liquid.

**Form**

Liquid.

**Color**

Not available.

**Odor**

Not available.

**Odor threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

572 °F (300 °C) estimated

**Initial boiling point and boiling range**

Not available.

**Flash point**

Not available.

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

Not available.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

Not available.

**Flammability limit - upper (%)**

Not available.

**Explosive limit - lower (%)**

Not available.

**Explosive limit - upper (%)**

Not available.

**Vapor pressure**

0.00001 hPa estimated

**Vapor density**

Not available.

**Relative density**

Not available.

<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	10.78 lbs/gal
<b>Percent volatile</b>	48.9 %
<b>Specific gravity</b>	1.3
<b>VOC</b>	8.405595 g/l Material estimated 0.070146 lbs/gal Material estimated 0.134927 lbs/gal Regulatory estimated 16.168302 g/l Regulatory estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
Aluminum Trihydroxide (CAS 21645-51-2)		
<u>Acute</u>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Ammonium Hydroxide 20-30% (CAS 1336-21-6)		
<u>Acute</u>		
<b>Oral</b>		
LD50	Rat	350 mg/kg
CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER (CAS 10605-21-7)		
<u>Acute</u>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
	Rat	2000 mg/kg
<b>Oral</b>		
LD50	Guinea pig	> 5000 mg/kg

Components	Species	Test Results
	Mouse	11000 mg/kg
	Rat	> 5000 mg/kg
Zinc Oxide (CAS 1314-13-2)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Mouse	> 5.7 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	7950 mg/kg
	Rat	> 5 g/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Suspected of causing cancer.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
TITANIUM DIOXIDE (CAS 13463-67-7)	2B Possibly carcinogenic to humans.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
Not listed.	
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>	
Paraffinic Oil (CAS 64742-65-0)	Known To Be Human Carcinogen.
PARAFFINIC PETROLEUM OIL (CAS 64742-54-7)	Known To Be Human Carcinogen.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not available.
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Components	Species	Test Results
Ammonium Hydroxide 20-30% (CAS 1336-21-6)		
<b>Aquatic</b>		
Fish	LC50	Western mosquitofish (Gambusia affinis) 15 mg/l, 96 hours
CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER (CAS 10605-21-7)		
<b>Aquatic</b>		
Fish	LC50	Channel catfish (Ictalurus punctatus) 0.009 - 0.015 mg/l, 96 hours
TITANIUM DIOXIDE (CAS 13463-67-7)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) > 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus) > 1000 mg/l, 96 hours

Components	Species	Test Results
Zinc Oxide (CAS 1314-13-2)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 2246 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**  
 CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER 1.52

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations**

**Disposal instructions** 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/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport information**

**DOT**  
Not regulated as dangerous goods.

**IATA**  
Not regulated as dangerous goods.

**IMDG**  
Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**15. Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
 Ammonium Hydroxide 20-30% (CAS 1336-21-6) Listed.  
 CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER (CAS 10605-21-7) Listed.  
 Zinc Oxide (CAS 1314-13-2) Listed.

**SARA 304 Emergency release notification**  
Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Zinc Oxide	1314-13-2	1 to <5
Ammonium Hydroxide 20-30%	1336-21-6	0.1 to <1

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

## US state regulations

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Paraffinic Oil (CAS 64742-65-0)  
PARAFFINIC PETROLEUM OIL (CAS 64742-54-7)  
TITANIUM DIOXIDE (CAS 13463-67-7)

### US. Massachusetts RTK - Substance List

Ammonium Hydroxide 20-30% (CAS 1336-21-6)  
Calcium Carbonate (CAS 1317-65-3)  
Paraffinic Oil (CAS 64742-65-0)  
TITANIUM DIOXIDE (CAS 13463-67-7)  
Zinc Oxide (CAS 1314-13-2)

### US. New Jersey Worker and Community Right-to-Know Act

Ammonium Hydroxide 20-30% (CAS 1336-21-6)  
Calcium Carbonate (CAS 1317-65-3)  
CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER (CAS 10605-21-7)  
TITANIUM DIOXIDE (CAS 13463-67-7)  
Zinc Oxide (CAS 1314-13-2)

### US. Pennsylvania Worker and Community Right-to-Know Law

Ammonium Hydroxide 20-30% (CAS 1336-21-6)  
Calcium Carbonate (CAS 1317-65-3)  
TITANIUM DIOXIDE (CAS 13463-67-7)  
Zinc Oxide (CAS 1314-13-2)

### US. Rhode Island RTK

Ammonium Hydroxide 20-30% (CAS 1336-21-6)  
CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER (CAS 10605-21-7)  
Zinc Oxide (CAS 1314-13-2)

### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

3-(3,4 Dichlorophenyl)-1,1-Dimethylurea (CAS 330-54-1)	Listed: May 31, 2002
TITANIUM DIOXIDE (CAS 13463-67-7)	Listed: September 2, 2011



## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	12-23-2014
Revision date	11-18-2015
Version #	07
HMIS® ratings	Health: 1* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 0 Flammability: 0 Instability: 0

### Disclaimer

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. GAF cannot anticipate all conditions under which this information and product, or the products of other manufacturers in combination with this product, may be used. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. **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.

### Revision Information

Product and Company Identification: Converted to GAF SDS