



GAF
Safety Data Sheet
SDS # 2080
SDS Date: December 2021

1. IDENTIFICATION

PRODUCT NAME: United Coatings EnergyCote™ Roof Coating

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

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity Category Category 2
Skin Irritant Category 3

Pictograms:



Signal word: Warning

Hazard statement(s)

Suspected of causing cancer.
Causes mild skin irritation.

Precautionary Statements - Prevention

Wear protective gloves.
Wear eye or face protection.
Use only outdoors or in a well-ventilated area.

Avoid breathing vapor.
Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical 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 attention.

Hazards not otherwise classified (HNOC)

Not applicable.

Other Information

Unknown acute toxicity.

ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

SIGNS & SYMPTOMS OF EXPOSURE

EYES:	Direct contact with the eyes may cause temporary irritation.
SKIN:	Direct skin contact can cause slight irritation of the skin. Prolonged contact can cause reddening of the skin.
INGESTION:	Expected to be a low ingestion hazard.
INHALATION:	May cause irritation.
ACUTE HEALTH HAZARDS:	Skin irritation.
CHRONIC HEALTH HAZARDS:	None known.
CARCINOGENICITY:	IARC has determined that occupational exposure to Titanium Dioxide is possibly carcinogenic to humans (Group 2B).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%
Titanium Dioxide	13463-67-7	20 - 30
Alumina Trihydrate	21645-51-2	10 - 20
Non-hazardous ingredients	-	50 - 60

4. FIRST AID MEASURES

Description of first aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Skin contact

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed Slight irritation of eyes and skin.

Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep the victim under observation. Symptoms may be delayed.

Note to physicians

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment including water fog, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical No information available.

Explosion data

In a fire or if heated, a pressure increase will occur and the container may burst.

Sensitivity to Static Discharge

None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Isolate materials not yet involved in the fire and protect personnel. Move containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

Methods for containment	Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see section 13).
Methods for cleaning up	Stop leak if without risk. Move containers from the spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in a container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. For exterior use only. Do not use indoors. Put on appropriate personal protective equipment (see section 8 of SDS). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse containers.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep the container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers
Incompatible materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR1910.1000)

Titanium Dioxide (CAS 13463-67-7)

PEL 15 mg/m³ Total dust.

US. ACGIH Threshold Limit Values

Aluminum Trihydroxide (CAS 21645-51-2)

TLV 1 mg/m³ Respirable fraction.

Titanium Dioxide (CAS 13463-67-7)

TLV 10 mg/m³ Respirable fraction.

Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Adequate ventilation
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Individual protection measures, such as personal protective equipment

Eye/face protection	Safety glasses or chemical goggles as appropriate to prevent eye contact.
Skin and body protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn

at all times. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Personal protective equipment for the body should be selected based on the task being performed and the risks involved

Respiratory protection

If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

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

Information on basic physical and chemical properties

Physical state and color

White heavy liquid

Property

Values

pH	9.2
Melting point/freezing point	No information available
Boiling point / boiling range	> 100 deg C > 212 deg F
Flash point	> 100 deg C > 212 deg F
Evaporation rate	No information available
Flammability (solid, gas)	Non-Flammable
Flammability Limit in Air	
Upper flammability limit:	Non-Flammable
Lower flammability limit:	Non-Flammable
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.3
Water solubility	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Explosive properties	No information available
Oxidizing properties	No information available
VOC Content	< 50 g/L
Density	12 lbs/gal

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and contact with incompatible chemicals.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Eye contact	Direct contact with the eyes may cause temporary irritation.
Skin contact	May cause slight skin irritation.
Ingestion	Expected to be a low ingestion hazard.

Information on toxicological effects

Aluminum Trihydroxide (CAS 21645-51-2)

Acute Oral Test Results
LD50 Rat > 5000 mg/kg

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	This product is not expected to cause skin sensitization..
Germ cell mutagenicity	No information available.
Carcinogenicity	IARC has determined that occupational exposure to Titanium Dioxide is possibly carcinogenic to humans (Group 2B).
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Potential acute health effects

Eye contact :	May cause mild eye irritation.
Inhalation :	None known.
Skin contact :	Causes mild skin irritation.
Ingestion :	None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Titanium Dioxide (CAS 13463-67-7)

Aquatic

EC50 Water flea (Daphnia magna) Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 48 hours
LC50 Fish Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hours

Persistence and degradability

Not readily biodegradable

Bioaccumulation

No information available.

Other adverse effects

No known significant or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

Contaminated packaging Do not reuse containers.

14. TRANSPORT INFORMATION

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US Federal Regulations

TSCA

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Zinc Oxide

SARA Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

No

US State Regulations

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
Alumina Trihydrate	21645-51-2	No	No	No	No	No	No
Titanium Dioxide	13463-67-7	No	No	Yes	Yes	Yes	Yes

California Proposition 65

Titanium dioxide is a California Proposition 65 listed substance.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -
<u>HMS</u>	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection X

ADDITIONAL COMMENTS: None.

DATE OF PREVIOUS SDS: December 2014

CHANGES SINCE PREVIOUS SDS: Updated ingredients list.

This information relates to the specific material designated and may not be valid for such material used in 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.