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SDS REF. No:	3047



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: United Coatings Unisil High Solids

SYNONYMS:

CAS NUMBER: N/A Mixture

PRODUCT USE: Silicone roof coating

MANUFACTURER

GAF
1 Campus Drive
Parsippany, NJ 07054 USA
1-800-766-3411

24 HR. EMERGENCY TELEPHONE NUMBER

CHEMTREC® (US Transportation) (800) 424-9300
CHEMTREC® (International Transportation) 1 (202) 483-7616

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Viscous liquid

IMMEDIATE CONCERNS: Use as Directed – For Industrial Use Only.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

SKIN ABSORPTION: None.

INGESTION: Harmful if swallowed.

INHALATION: N/A

CHRONIC: None.

CARCINOGENICITY: Contains crystalline silica.

MUTAGENICITY: None.

REPRODUCTIVE TOXITY

REPRODUCTIVE EFFECTS: None.

TERATOGENIC EFFECTS: None.

IRRITANCY: None.

CLASSIFICATION:

Carcinogen: Category 1.

Eye irritation: Category 2.

PICTOGRAMS:



SIGNAL WORD: Warning

HAZARD STATEMENTS:

May cause cancer.
Causes eye irritation.
Harmful to aquatic life.

PRECAUTIONARY STATEMENTS:

Keep container tightly closed.
No smoking.
Wear protective gloves and eye/face protection
For Industrial and Institutional Use Only – For outside use only
Store in cool/well-ventilated place
Avoid release to the environment
Avoid activities (sanding, crushing) of finished product that can produce airborne fibers

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS #	Weight %
Crystalline Silica**	14808-60-7	30 - 35
Titanium Dioxide**	13463-67-7	5 - 10
Pigment Dispersions (as carbon black**)	1333-86-4	<0.5
Methyl Oximino Silane	22984-54-9	< 7

** These materials are bound in liquid/paint and are not airborne or in dust form.

** "WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

4. FIRST AID MEASURES

EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention

SKIN: Wash the contaminated area with soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.

INGESTION: If swallowed, DO NOT induce vomiting. Seek immediate medical attention.

INHALATION: Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, give artificial respiration.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

SYMPTOMS: N/A

EFFECTS: N/A

NOTES TO PHYSICIAN: N/A

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Foam, extinguishing powder, carbon dioxide, water fog. In case of fire, cool endangered containers with water fog.

FIRE FIGHTING PROCEDURES: As appropriate for surrounding materials/equipment. If electrical equipment is involved, the use of foam should be avoided. Use water spray to cool non-involved containers.

UNUSUAL FIRE AND EXPLOSION HAZARD: N/A

COMBUSTION PRODUCTS: By high heat or fire: Carbon monoxide, Carbon dioxide, Oxides of Nitrogen and Oxides of silicone and various hydrocarbon fragments.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Remove all sources of ignition. Ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite or sand, and place in a closed container.

LARGE SPILL: In case of large spill, dike the area to prevent this material from entering water systems or sewers. For major spills call CHEMTREC® (800-424-9300).

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: For major spills call CHEMTREC® (800-424-9300).

LAND SPILL: For major spills call CHEMTREC® (800-424-9300).

PERSONAL PRECAUTIONS: Do not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

PROTECTIVE EQUIPMENT: Wear protective clothing, safety glasses and impervious gloves (e.g., neoprene gloves).

EMERGENCY PRECAUTIONS: N/A

METHOD OF CLEANING UP: Absorb on liquid-absorbing material (treated sawdust, diatomaceous earth, sand). Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with eyes. Avoid skin contact and breathing mists/vapors. Use in well-ventilated area.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Ensure adequate ventilation.

Store at temperatures between +5 and +50°C.

Store only in the original container.

8. EXPOSURE CONTROLS\PERSONAL PROTECTION**OSHA TABLE COMMENTS:**

Crystalline Silica - OSHA - Final PELs - Table Z-3 Mineral Dusts

Titanium dioxide - 15 mg/m³ TWA (total dust) U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

EXPOSURE LIMITS: U.S. - OSHA - Final PELs - Table Z-3 Mineral Dusts Quartz
(30)/(%SiO₂ + 2) mg/m³ TWA, total dust; (250)/(%SiO₂ + 5) mppcf TWA, respirable fraction;
(10)/(%SiO₂ + 2) mg/m³ TWA, respirable fraction. Titanium dioxide - 15 mg/m³ TWA (total dust)

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

SKIN: Wear chemical resistant gloves. Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Eye wash station and safety shower should be available.

RESPIRATORY: If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended.

WORK HYGIENIC PRACTICES: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverages should be kept away from areas where the product is used or stored. Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used.

OTHER USE PRECAUTIONS: For Industrial Use Only – Use only as directed.

COMMENTS: Avoid sanding or other activities that may produce airborne fibers from finished product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous Liquid

COLOR: White, Lt Grey, Dark Grey, or Tan

ODOUR: Slight sweet odor

ODOUR THRESHOLD: N/A

pH: N/A

MELTING POINT: N/A

BOILING POINT: N/A

FLASH POINT AND METHOD: >200°F - (COC) ASTM D-92

EVAPORATION RATE: Slower than ether

FLAMMABILITY (Solid/Gas): N/A

FLAMMABLE LIMITS: N/A

VAPOUR PRESSURE: N/A

VAPOUR DENSITY: Heavier than air

SPECIFIC GRAVITY: Average 1.26 to 1.30

% SOLUBILITY IN WATER: Negligible

OCTANOL/WATER PARTITION COEFFICIENT: N/A

AUTO-IGNITION TEMPERATURE: N/A

DECOMPOSITION TEMPERATURE: N/A

POUR POINT: N/A

MOLECULAR FORMULA:

% VOLATILE: <50 Grams/Liter EPA Method 24

VISCOSITY: N/A

MOLECULAR WEIGHT: N/A

10. STABILITY AND REACTIVITY

STABLE: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Keep away from heat, sparks, or flames.

STABILITY: Stable under normal conditions of use and storage

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat or fire: Carbon Monoxide, Carbon dioxide, Oxides of silicone, and various hydrocarbon fragments.

INCOMPATIBLE MATERIALS: Avoid water, strong oxidizing agents, concentrated nitric and sulfuric acids, halogen, and molten sulfur.

POSSIBILITY OF HAZARDOUS REACTIONS: Does not occur.

11. TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Dizziness and labored breathing.

ACUTE EFFECTS:

EYE: Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, and swelling.

SKIN: Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

INHALATION: Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are more likely seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include: Irritation (nose, throat, and respiratory tract), metallic taste in mouth, impaired coordination, confusion, CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness).

INGESTION: Single dose or oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Symptoms may include: Gastrointestinal irritation (nausea, vomiting, and diarrhea) and possible liver damage. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

TARGET ORGAN: N/A

CHRONIC EFFECTS: Crystalline Silica: IARC - Group 1 (Carcinogenic to Humans) Silica, quartz Monograph 100C [2012] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997]

Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. In animal studies MEKO produced tumors in rats. Provide ventilation during use to control MEKO exposure or use respiratory protection.

ACUTE TOXICITY VALUES: N/A

SYMPTOMS OF RELATED

PHYSICAL: N/A

CHEMICAL: N/A

TOXICOLOGICAL CHARACTERISTICS: N/A

DELAYED AND IMMEDIATE EFFECTS: N/A

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: The total of the organic components contained in the product is not classified as "readily biodegradable" (OECD-301 A-F).

PERSISTENCE AND DEGRADABILITY: Biodegradation is not applicable to inorganic substances such as crystalline silica, quartz.

BIO-ACCUMULATIVE POTENTIAL: There is no evidence to suggest bioaccumulation will occur.

MOBILITY: N/A

OTHER ADVERSE EFFECTS: N/A

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

DISPOSAL METHOD: Avoid disposal by using the entire product as directed. If discarded in liquid form, this product may be treated as hazardous waste. Unused product may be disposed of as solid waste once cured out and dry. Check with local authorities regarding landfill disposal.

EMPTY CONTAINER: Empty containers should be decontaminated and either passed to an approved drum recycler or crushed and land filled.

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

TSCA (Toxic Substances Control Act) Regulations: This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders.

SARA: This material does not contain any substances in the list of Toxic Chemicals subject to Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III), in excess of the applicable de minimis concentrations as specified in Section 372.38 (a).

Massachusetts, New Jersey, Pennsylvania right to know Extraordinarily Hazardous Substance Lists:

<u>Reportable Component</u>	CAS No	Weight % (+ 2%)
Crystalline Silica (as respirable dust only, not while in liquid form)	14808-60-7	31
Methyl Oximo silane	22984-54-9	< 7

California Proposition 65:

Warning: This product contains chemicals known to the state of California to be Carcinogenic.

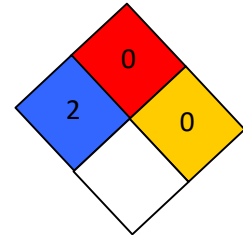
<u>Reportable Component</u>	CAS No	Weight % (+ 2%)
Crystalline Silica (as respirable dust only, not while in liquid form)	14808-60-7	31
Pigment Dispersion (as carbon black) (as respirable dust only, not while in liquid form)	1333-86-4	<0.5%

16. OTHER INFORMATION

HMIS RATING	
Health :	2
Flammability :	0
Reactivity :	0
Personal Protection :	B

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NFPA CODES



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Revision Information

Product and Company Identification:
 Converted to GAF SDS
 Updated storage and handling sections.