



DATE ISSUED :	7/2/2015
REVISION:	11/20/2015
SDS REF. No :	3048

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: UNISIL WHITE
PRODUCT CODE:
SYNONYMS:
CAS NUMBER: N/A Mixture
PRODUCT USE: Silicone Roof Coating

MANUFACTURER

GAF
1 Campus Drive
Parsippany, NJ 07054 USA
Telephone 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: Contains petroleum distillates may be harmful if swallowed and enters airways.

CHRONIC: None.

CARCINOGENICITY: Contains crystalline silica.

MUTAGENICITY: None.

REPRODUCTIVE TOXITY

REPRODUCTIVE EFFECTS: None.

TERATOGENIC EFFECTS: None.

IRRITANCY: None.

GHS CLASSIFICATION:

Eye irritation: Category 2

Flammable liquid: Category 4

Carcinogen: Category 1

PICTOGRAMS



SIGNAL WORD: Danger

HAZARD STATEMENTS:

Flammable liquid and vapor.

Causes eye irritation.

May cause cancer (crystalline silica is a known carcinogen if inhaled).

Harmful to aquatic life.

Harmful if swallowed and enters airways.

PRECAUTIONARY STATEMENTS:

Keep container tightly closed.

Keep away from heat/sparks/open flame. - No smoking.

Wear protective gloves and eye/face protection Ground/Bond container equipment.

For Industrial and Institutional Use Only – For outside use only

Use explosion-proof electrical/ventilating/lighting/ equipment and non-sparking tools.

Take precautionary measures against static discharge.

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
Petroleum Hydrocarbon Distillates	64742-47-8	15 - 20
Pigment Dispersions (as carbon black**)	1333-86-4	< 0.5
Methyl Oximino Silane	22984-54-9	< 5

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: May cause allergic skin reaction with symptoms of reddening, itching, swelling and rash.

EFFECTS: May cause defatting of the skin with symptoms of dryness and cracking.

NOTES TO PHYSICIAN: Contains petroleum distillates that may be harmful if swallowed and enters airways.

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: As for petroleum distillates (mineral spirits)

COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, silicone oxides.

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. Use a self-contained respirator, a mask with filter (type A class 3) or a filtering mask (e.g., EN 405). Wear protective clothing, safety glasses and impervious gloves (e.g., neoprene gloves). Ensure adequate ventilation. Avoid all sources of ignition, hot surfaces and open flames.

PROTECTIVE EQUIPMENT: Use a self-contained respirator, a mask with filter (type A class 3) or a filtering mask (e.g., EN 405). Wear protective clothing, safety glasses and impervious gloves (e.g., neoprene gloves).

EMERGENCY PRECAUTIONS: Avoid all sources of ignition, hot surfaces and open flames.

METHOD OF CLEANING UP: Eliminate all ignition sources. Runoff may create fire or explosion hazard in sewer system. Absorb on fire retardant, 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 away from all ignition sources. Switch off all electrical devices such as parabolic heaters, hotplates, storage heaters etc. in good time for them to have cooled down before commencing work. Do not smoke; do not weld. Do not empty waste into sanitary drains. Take measures to prevent the buildup of electrostatic charge. Employee education and training in the safe use and handling of this product is required under the OSHA HCS 29CFR 1910.1200.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: Storage containers must be grounded and bonded. Store away from all ignition sources in a cool area equipped with an automatic sprinkling system. 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:

OSHA - Final PELs – Crystalline Silica Table Z-3 Mineral Dusts
Titanium dioxide - 15 mg/m³ TWA (total dust) U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

EXPOSURE LIMITS: Crystalline Silica - 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

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

ODOR: Petroleum odor.

ODOR THRESHOLD: N/A

pH: N/A

MELTING POINT: N/A

BOILING POINT: 310 - 385°F

FLASH POINT AND METHOD: ~108°F (COC) ASTM D-92

EVAPORATION RATE: Slower than ether

FLAMMABILITY (Solid/Gas): N/A

FLAMMABLE LIMITS: LEL 1.1 – UEL 5.0

VAPOR PRESSURE: N/A

VAPOR DENSITY: Heavier than air

SPECIFIC GRAVITY: Average 1.23 to 1.25

% 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: N/A

% VOLATILE: <250 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, Oxides of Nitrogen and various hydrocarbon fragments.

INCOMPATIBLE MATERIALS: Water, Avoid 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: Prolonged or repeated skin contact may cause dryness, defatting, and dermatitis.

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 methylethylketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control MEKO within the exposure guidelines 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 coating diluents, petroleum naphtha, is biodegradable and does not accumulate in the food chain. Petroleum naphtha has a very low acute toxicity.

Petroleum Hydrocarbon Distillates: 96hr LC50 Oncorhynchus mykiss 2 mg/L; 48hr EC50 Daphnia magna EC50 1.4 mg/L; 72hr EC50 Pseudokirchnerella subcapitata 1 mg/L

The uncured coating will release methylethylketoxime (MEKO) when in contact with water. MEKO has been determined to be biodegradable and has a static 96 hours LC50 of 48mg/L (bluegill) and 48 hours EC50 of 750 mg/L (daphnia).

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: This product has been tested and found to have a flash point below 140°F. If discarded in liquid form, this product may be treated as hazardous waste based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261).

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

TECHNICAL NAME: Roof Coating, Not Regulated

(49CFR: Applicable for domestic transportation by highway and rail, but not air or vessel) (See 49CFR 173.150(F)(1). Non bulk packaging (less than 119 gallons, material ships as not regulated. (See 49CFR 173.150(F)(2).

Ship Via Air or Vessel ONLY

UN NUMBER: UN1993

UN PROPER SHIPPING NAME: Flammable liquid, N.O.S. (mineral spirits)

TRANSPORT HAZARD CLASS: 3

PACKING GROUP: III

MARINE POLLUTANT: N/A

SPECIAL PRECAUTIONS: N/A

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).

State Right to Know Information:

The following chemicals are specifically listed by individual states; other specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

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
Petroleum Hydrocarbon Distillates	64742-47-8	15 – 20
Methyl Oximo silane	22984-54-9	< 5

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%)
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Material name: UNITED COATINGS UNISIL ROOF COATING

Version #: 03 Revision date: 11-20-2015

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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

DATE ISSUED:	7/2/2015
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REVISION INDICATOR:	3

HMIS® ratings Health: 2
 Flammability: 2
 Physical hazard: 0

NFPA ratings Health: 2
 Flammability: 2
 Instability: 0

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Revision Information Product and Company Identification: Converted to GAF SDS