Safety Data

1. Identification of Substance:

Product Use: Coating/Primer for Roof Surfaces **Field of Application:** building and metal industry **Identified uses:** Water-borne acrylic primer	**Company Details:** **UltraTite Solutions** **Address:** 403 Century Plaza Dr. Ste 400 Houston, Texas 770973 **Telephone:** (832)827-2925 **24-Hr. Emergency Phone Number:** CHEMTREC (800) 424-9300

2. Hazards Identification

GHS Ratings:

Eye irritation: Category 2A
Skin sensitization: Category 1
Carcinogenicity: Category 1A

GHS Hazards

H317 May cause an allergic skin reaction

GHS Precautions

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves/protective clothing/eye protection/face protection
P321 Specific treatment is urgent (see Section 4 First Aid measures)
P363 Wash contaminated clothing before reuse
P302+P352 IF ON SKIN: Wash with soap and water
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P501 Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.

Signal Word: Danger

Acute Toxicity:
Eyes: May cause irritation & burns.
Skin: Minor potential for irritation.
Inhalation: Liquid may cause irritation.
Ingestion: Consult physician.

Conditions aggravated: None known.

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3. Composition/information on ingredients:

Chemical Name	CAS number	Weight Concentration %
Aluminum hydroxide	21645-51-2	10 - 20%
Titanium dioxide (Rutile)	13463-67-7	5 - 10%
Biocide	Trade Secret	0.1 - 1%
Ammonium Hydroxide	1336-21-6	0.1 - 1%
Crystalline Quartz Silica	14808-60-7	0.1 - 1%

4. First Aid Measures:

Inhalation: If symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.
After Eye Contact: Rinse opened eye for at least 15 minutes under running water.
Remove contact lenses if present and easy to do so, and continue rinsing.
After Skin Contact: Clean affected area with soap and plenty of water.

After Swallowing: Consult physician.

Notes to Physician: Treat symptomatically

5. Firefighting measures

Flash Point: 122 C (252 F)

LEL: N/A UEL: N/A

Upper and lower explosive limits listed if known.
Suitable Extinguishing Agents: Water spray, CO2, Foam, Dry chemical

Information about Protection against Explosions and Fires: Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, and traces of HCN
Protective Equipment: Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

6. Accidental release measures

Person-Related Safety Precautions: Avoid contact with skin and eyes. Do not breathe vapors.

Measures for Environmental Protection: Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations. Clean up with water. Avoid discharge into drains, water courses, or onto the ground.

7. Handling and Storage

Information for Safe Handling: Avoid contact with skin or inhalation.

Storage Requirements: Store in dry, well ventilated area. Keep containers tightly closed. Store between 45°F-100°F. Material may freeze below 32°F. Material may settle.

Regulatory Requirements: Store according to all local, state, and federal regulations.

8. Exposure Controls and Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Aluminum Hydroxide 21645-51-2	Not Established	1 mg/m3 TWA	Not Established
Titanium dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
Ammonium Hydroxide 1336-21-6	50 ppm, 35 mg/m3 PEL (respirable fraction)	5 ppm STEL (respirable fraction) 25 ppm TWA (respirable fraction)	Not Established
Crystalline Quartz Silica 14808-60-7	0.3 mg/m3 TWA (total dust); 0.1 mg/m3 TWA (respirable fraction)	0.025 mg/m3 TWA (respirable fraction)	Not Established

Engineering Controls: No specific measures required if proper PPE precautions are followed.

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.
General Protective and Hygienic Measures: Usual precautionary measures should be adhered to when handling chemicals.
Personal Protective Equipment:
Respiratory Protection: None required if work area is properly ventilated.
Hand Protection: Protective chemical resistant gloves.
Eye Protection: Safety glasses with side shields.
Body Protection: Protective work clothing. Launder separately.

Contaminated Gear: Observe local requirements. Dispose of in accordance with local/state/federal regulations

9. Physical and Chemical Properties:

Physical properties listed where known.

Appearance: Various	**Odor:** Mild, Amine
Vapor Pressure: 17 mmHg @ 20 °C (68 °F) similar to water	**Odor threshold:** N/A
Vapor Density: N/A pH: N/A	**pH:** N/A
Specific Gravity 1.11 Melting point: N/A	**Melting point:** N/A
Freezing point: N/A Solubility: N/A	**Solubility:** N/A
Boiling range: 122 - 126°C Flash point: >212°F,100°C	**Flash point:** 124 F,51 C
Evaporation rate: N/A Flammability: N/A	**Flammability:** N/A
Explosive Limits: N/A Partition coefficient N/A (n-octanol/water):	**Partition coefficient (n-octanol/water):**
Autoignition temperature: N/A Decomposition temperature: N/A	**Decomposition temperature:** N/A

10. Stability and Reactivity:

Incompatible Materials: Avoid contact with strong acids, strong bases, and oxidizing agents.

Hazardous Polymerization: Not expected to occur.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, traces of HCN.

11. Toxicological Information:

Mixture Toxicity
Component Toxicity

Toxicity Values Listed if Known
Acute Toxicity:
Eyes: May cause irritation & burns.
Skin: Minor potential for irritation.
Inhalation: Liquid may cause irritation.
Ingestion: Consult physician.
Chronic Effects: Not expected to cause any adverse chronic health effects.
Routes of Entry: Skin contact.
Target Organs: Skin.
Chemicals with Known or Possible Carcinogenic Effects:

CAS Number	Description	% Weight	Carcinogen Rating
None			None

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12. Ecological Information:

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.

Component Ecotoxicity
Ecological Data for Titanium dioxide (Rutile)
Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 h)
Acute Toxicity to Aquatic Invertebrates
EC0: > 3 mg/l (Water flea (Daphnia magna))
Toxicity to Microorganisms
EC0: > 10,000 mg/l, (Pseudomonas fluorescens, 24 h)
Ecological Data for Biocide
Acute and Prolonged Toxicity to Fish
LC50: 0.049 mg/l (Other fish)
LC50: 0.076 mg/l (Rainbow (Donaldson)Trout (Oncorhynchus mykiss), 96 h)
Acute Toxicity to Aquatic Invertebrates
EC50: 0.2 mg/l (Water flea (Daphnia magna))

13. Disposal considerations

Recommendation: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

Empty Container Precautions: Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal. Contact the Reusable Industrial Packaging Association (RIPA) at 301-577-3786 to find a drum re-conditioner in North America (www.reusablepackaging.org).

14. Transport Information

DOT Regulated Components:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods unless specifically cited below:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
	None			

15. Regulatory Information:

OSHA HAZARD COMMUNICATION STANDARD: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: Acute health hazard.

California Proposition 65
(Safe Drinking Water and Toxic Enforcement Act of 1986)
This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:

WARNING: This product can expose you to chemicals listed below, which are known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit www.P65Warnings.ca.gov

- None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Weight percent	Components	CAS-No.
>=1%	Water	7732-18-5
>=1%	Acrylic Polymer	
20 - 30%	Limestone	1317-65-3
10 - 20%	Aluminum hydroxide	21645-51-2
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

Weight percent	Components	CAS-No.
0.1 - 1%	Zinc Oxide	1314-13-2
0.1 - 1%	Ammonium Hydroxide	1336-21-6
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

Weight percent	Components	CAS-No.
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

California Prop. 65:
Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Developmental toxin. Female reproductive toxin. Male reproductive toxin.

Weight percent	Components	CAS-No.
5 – 10%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	Crystalline Quartz Silica	4808-60-7

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

16. Other Information:

Safety Data Sheet issued by Product Safety Department
This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Ultratite Solutions. The data on these sheets relates only to the specific material designated herein. Ultratite Solutions assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws