

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Roof Sealant for Acrylic Systems  
**Product Use Description:** Sealant for Roofing Applications  
**Manufacturer:** NanoTech Materials, Inc.  
21401 Park Row Drive #360  
Katy, TX 77449  
**Email:** info@nanotechmaterials.com  
**Telephone:** 1-(888) 296-6266

## 2. HAZARDS IDENTIFICATION

### GHS Classification

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

### GHS Label Elements

#### Hazard Pictograms:



**Signal Word:** Danger

**Hazard Statements:**

- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause cancer.

### Precautionary Statements

**Prevention:**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust, mist, gas, vapors or spray.
- Wash skin and face thoroughly after handling.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

**Response:**

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

**Storage:** Store locked up.

**Disposal:** Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 24%

Weight %	Component	CAS-No.	Classification
5 - 10%	Titanium dioxide (Rutile)	13463-67-7	Carc. Cat 2 Inhal. STOT-SE Cat 3 Resp.
0.1 - 1%	Biocide	Trade Secret	Acute Tox Cat 2 Inhal. Eye Dam Cat 1 Skin Sens Cat 1 Carc. Cat 2
0.1 - 1%	Ammonium Hydroxide	1336-21-6	Acute Tox Cat 4 Oral Acute Tox Cat 3 Inhal. Skin Corr Cat 1A Eye Dam Cat 1
0.1 - 1%	Crystalline Quartz Silica	14808-60-7	Acute Tox Cat 4 Oral Carc. Cat 1A STOT-RE Cat 1 Lungs

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

### 4. FIRST-AID MEASURES

**Most important symptoms/effects, acute and delayed:**

Symptoms: See section 11

**Eye Contact:**

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

**Skin Contact:**

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

**Inhalation:**

If inhaled, remove to fresh air. Get medical attention if irritation develops.

**Ingestion:**

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

All extinguishing media are suitable.

**Unsuitable Extinguishing Media**

No Data Available

**Fire Fighting Procedure:**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

**Hazardous Decomposition Products:**

By Thermal Decomposition: carbon monoxide, carbon dioxide, acrylic monomers, other potentially toxic fumes.

**Unusual Fire/Explosion Hazards:**

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

### 6. ACCIDENTAL RELEASE MEASURES

**Spill and Leak Procedures:**

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal.

## 7. HANDLING AND STORAGE

<b>Precautions:</b>	Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.
<b>Storage Period</b>	12 Months
<b>Storage Temperature Minimum</b>	1 °C (33.8 °F)
<b>Storage Temperature Maximum</b>	49 °C (120.2 °F)
<b>Storage Conditions</b>	None known
<b>Substances to Avoid</b>	None known

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Titanium dioxide (Rutile) (13463-67-7)

<b>ACGIH TWA</b>	10 mg/m <sup>3</sup>
<b>OSHA PEL (Total dust)</b>	15 mg/m <sup>3</sup>
<b>ACGIH Hazard Designation</b>	Group A4 Not classifiable as a human carcinogen

### Ammonium Hydroxide (1336-21-6)

<b>ACGIH TWA</b>	25 ppm
<b>ACGIH STEL</b>	35 ppm
<b>OSHA PEL</b>	50 ppm, 35 mg/m <sup>3</sup>

### Crystalline Quartz Silica (14808-60-7)

<b>ACGIH TWA</b>	0.025 mg/m <sup>3</sup> (Respirable fraction)
<b>OSHA Table Z-3 TWA (Respirable)</b>	0.1 mg/m <sup>3</sup>
<b>OSHA Table Z-3 TWA (Total dust)</b>	0.3 mg/m <sup>3</sup>
<b>ACGIH Hazard Designation</b>	Group A2 Suspected human carcinogen

### Personal Protective Equipment

<b>Ventilation</b>	General dilution and local exhaust as necessary
<b>Respiratory Protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment
<b>Hand Protection</b>	Permeation resistant gloves
<b>Eye Protection</b>	Splash proof goggles
<b>Skin Protection</b>	Wear cloth work clothing including long pants and long-sleeved shirts

Employees should wash their hands and face before eating, drinking, or using tobacco products. Emergency showers and eye wash stations should be available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>State of Matter</b>	Liquid
<b>Color</b>	Various
<b>Odor</b>	Mild, Amine
<b>Odor Threshold</b>	No Data Available

<b>pH</b>	No Data Available
<b>Freezing Point</b>	0 °C (32 °F) similar to water
<b>Boiling Point</b>	100 °C (212 °F) similar to water
<b>Flash Point</b>	Not applicable (water based product)
<b>Evaporation Rate</b>	No Data Available
<b>Vapor Pressure</b>	17 mmHg @ 20 °C (68 °F) similar to water
<b>Vapor Density</b>	No Data Available
<b>Specific Gravity</b>	1.2 – 1.5
<b>Solubility in Water</b>	No Data Available
<b>Partition Coefficient</b>	No Data Available
<b>Auto-ignition Temperature</b>	No Data Available
<b>Decomposition Temperature</b>	No Data Available
<b>Dynamic Viscosity</b>	No Data Available
<b>Kinematic Viscosity</b>	No Data Available

## 10. STABILITY AND REACTIVITY

<b>Hazardous Reactions</b>	Hazardous polymerization does not occur
<b>Stability</b>	Stable
<b>Materials to Avoid</b>	None known
<b>Hazardous Decomposition Products</b>	By Thermal Decomposition: carbon monoxide, carbon dioxide, acrylic monomers, other potentially toxic fumes

## 11. TOXICOLOGICAL INFORMATION

<b>Likely Routes of Exposure:</b>	Skin Contact, Eye Contact, Ingestion, Inhalation
<b>Health Effects and Symptoms:</b>	<ul style="list-style-type: none"> <li>• Acute: Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning. May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.</li> <li>• Chronic: May cause cancer.</li> </ul>
<b>Toxicity Data for Titanium dioxide (Rutile)</b>	
<b>Acute Oral LD50</b>	> 5000 mg/kg (rat, female)
<b>Acute Inhalation LC50</b>	> 6.82 mg/l, 4 h (rat, male)
<b>Acute Dermal LD50</b>	> 10000 mg/kg (rabbit)
<b>Skin Irritation</b>	Non-irritating (rabbit, OECD 404)
<b>Eye Irritation</b>	Non-irritating (rabbit, OECD 405)
<b>Sensitization</b>	Non-sensitizer (guinea pig, human)
<b>IARC Classification</b>	2B Possibly carcinogenic to humans
<b>Toxicity Data for Biocide</b>	
<b>Acute Oral LD50</b>	> 10000 mg/kg (rat)

<b>Acute Inhalation LC50</b>	0.217 mg/l, 4 h (rat)
<b>Acute Dermal LD50</b>	> 10000 mg/kg (rabbit)
<b>Sensitization</b>	Sensitizer (Human)
<b>IARC Classification</b>	2B Possibly carcinogenic to humans

**Toxicity Data for Ammonium Hydroxide**

<b>Acute Oral LD50</b>	350 mg/kg (rat)
<b>Acute Inhalation LC50</b>	2.87 mg/l, 4 h (rat)
<b>Skin Irritation</b>	Corrosive
<b>Eye Irritation</b>	Severely irritating (Human)
<b>Sensitization</b>	Negative

**Toxicity Data for Crystalline Quartz Silica**

<b>Acute Oral LD50</b>	500 mg/kg (rat)
<b>NTP Hazard Designation</b>	Known to be Human Carcinogen
<b>IARC Classification</b>	1 Carcinogenic to humans

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## 12. ECOLOGICAL INFORMATION

**Ecological Data for Titanium dioxide (Rutile)**

<b>Fish Toxicity</b>	LC0: > 1,000 mg/l (Golden orfe, 48 h)
<b>Aquatic Invertebrates</b>	EC0: > 3 mg/l (Daphnia magna)
<b>Toxicity to Microorganisms</b>	EC0: > 10,000 mg/l (P. fluorescens, 24 h)

**Ecological Data for Biocide**

<b>Fish Toxicity</b>	LC50: 0.049 mg/l (Other fish) LC50: 0.076 mg/l (Rainbow Trout, 96 h)
<b>Aquatic Invertebrates</b>	EC50: 0.2 mg/l (Daphnia magna)

**Ecological Data for Ammonium Hydroxide**

No data available for this component.

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## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method:</b>	Waste disposal should be in accordance with existing federal, state and local environmental control laws.
<b>Container Precautions:</b>	Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

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## 14. TRANSPORT INFORMATION

Non-Regulated

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## 15. REGULATORY INFORMATION

**United States Federal Regulations**

- **US. Toxic Substances Control Act**  
Listed on the TSCA Inventory.

• **US. EPA CERCLA Hazardous Substances (40 CFR 302) Components**

None

• **SARA Section 311/312 Hazard Categories**

Acute Health Hazard, Chronic Health Hazard

• **US. EPA EPCRA SARA Title III Section 302 Extremely Hazardous Substance Components**

None

• **US. EPA EPCRA SARA Title III Section 313 Toxic Chemicals - Supplier Notification Required Components**

1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-

**State Right-To-Know Information**

• **Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists**

Weight %	Component	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 NJ RTK Special Hazardous Substances Lists**

Weight %	Component	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 %	Component	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 %	Component	CAS-No.
5 - 10%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

## 16. OTHER INFORMATION

The method of hazard communication for NanoTech Materials, Inc. is comprised of Product Labels and Safety Data Sheets.

**Disclaimer:**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.