

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** All Weather Coat  
**Product Use Description:** Roof coating  
**Chemical Family:** White elastomeric coating  
**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 Label Elements

**Hazard Pictograms:**



**Signal Word:** Danger

**Hazard Statements:**

- H351: Suspected of causing cancer
- H372: Causes damage to organs through prolonged or repeated exposure
- H410: Very toxic to aquatic life with long lasting effects

**Precautionary Statements:**

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P264: Wash contaminated skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P314: Get medical advice/attention if you feel unwell.

### Hazard Classification

**GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)**

**Carcinogenicity:** Category 2

**Specific target organ toxicity (repeated exposure):** Category 1

### Other hazards which do not result in classification

**Acute aquatic toxicity:** Category 1

**Chronic aquatic toxicity:** Category 1

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

### Hazardous components

Component	CAS-No.	Classification

Zinc Oxide	1314-13-2	1 – 5 % (weight)
Calcium Carbonate	1317-65-3	10 – 25 % (weight)
Titanium(IV) oxide	13463-67-7	5 – 10 % (weight)
Non-hazardous ingredients	—	60 – 84 % (weight)

## 4. FIRST-AID MEASURES

### Description of necessary first-aid measures

<b>General advice:</b>	Move out of the dangerous area. If you feel unwell, seek medical advice.
<b>In case of eye contact:</b>	Immediately flush with plenty of water for 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do while rinsing. Get medical attention if eye irritation persists.
<b>If inhaled:</b>	Move into fresh air and keep at rest. Loosen clothing as necessary. If the person is not breathing, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if irritated.
<b>Ingestion:</b>	Treat symptomatically. Get medical attention.
<b>In case of skin contact:</b>	Wash with soap and water. Rinse/flush exposed skin gently using water for 15–20 minutes. Wash contaminated clothing and shoes before reuse. If irritation occurs, get medical attention.
<b>If swallowed:</b>	Do not induce vomiting unless indicated by medical personnel. Never give anything by mouth to an unconscious person. Have exposed individual drink sips of water. Get medical attention if irritation, discomfort, or vomiting persists.
<b>Most important symptoms/effects, acute and delayed:</b>	May cause irritation.
<b>Indication of immediate medical attention and special treatment needed:</b>	Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. FIRE-FIGHTING MEASURES

<b>General Fire Hazards:</b>	No unusual fire or explosion hazards noted.
<b>Suitable (and unsuitable) extinguishing</b>	
<b>Suitable extinguishing media:</b>	CO <sub>2</sub> , dry chemical, foam, water spray, water fog
<b>Unsuitable extinguishing media:</b>	Not determined
<b>Specific hazards arising from the chemical:</b>	See Section 10 for additional information. Material will not burn until water has been evaporated. Container may rupture on heating.
<b>Special protective equipment and precautions for firefighters</b>	
<b>Special fire-fighting procedures:</b>	No data available
<b>Special protective equipment for fire fighters:</b>	Wear full protective fire gear including self-contained breathing apparatus operated in the positive pressure mode with full face piece, coat, pants, gloves and boots.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.  Ventilate area if spilled in confined space or other poorly ventilated areas. Personal Protective Equipment must be worn. See Personal Protection Section for PPE recommendations.
<b>Methods and material for containment and cleaning up:</b>	Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Wash area with soap and water. Spilled liquid and dried film are slippery. Use care to avoid falls.
<b>Environmental Precautions:</b>	Avoid release to the environment. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin and clothing. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate Personal Protective Equipment. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse.  Avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing mist or vapors. When using, do not eat, drink or smoke. Stir well before use. Keep containers closed when not in use. Minimize contact with air to reduce contamination with mold, fungus, or other organisms which could cause decomposition or spoilage. Wash thoroughly after handling.
<b>Conditions for Safe Storage:</b>	Store in a cool dry place. Keep container(s) closed.
<b>Maximum Handling Temperature:</b>	Not determined.
<b>Conditions for Safe Storage, Including Any Incompatibilities:</b>	Store away from incompatible materials. See Section 10 for incompatible materials. Keep from freezing. Do not store in open, unlabeled or mislabeled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

### Occupational Exposure Limits

<b>Zinc Oxide (CAS: 1314-13-2):</b>	<ul style="list-style-type: none"> <li>• TWA [Zinc oxide (dust)] (Inhalation): 10 mg/m<sup>3</sup>; AU (AU/SWA)</li> <li>• TWA [Zinc oxide (fume)] (Inhalation): 5 mg/m<sup>3</sup>; AU (AU/SWA)</li> <li>• STEL [Zinc oxide (fume)] (Inhalation): 10 mg/m<sup>3</sup>; AU (AU/SWA)</li> <li>• PEL [Zinc oxide fume] (Inhalation): 5 mg/m<sup>3</sup>; US (US/OSHA)</li> <li>• PEL [Zinc oxide fume] (Inhalation): 5 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup>; US (Cal/OSHA)</li> <li>• REL [Zinc oxide fume] (Inhalation): 5 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup>; US (NIOSH)</li> <li>• PEL [Zinc oxide - Total dust] (Inhalation): 15 mg/m<sup>3</sup>; US (US/OSHA)</li> <li>• PEL [Zinc oxide - Total dust] (Inhalation): 10 mg/m<sup>3</sup>; US (Cal/OSHA)</li> <li>• REL [Zinc oxide - Total dust] (Inhalation): 5 mg/m<sup>3</sup>, (C) 15 mg/m<sup>3</sup>; US (NIOSH)</li> <li>• PEL [Zinc oxide - Respirable fraction] (Inhalation): 5 mg/m<sup>3</sup>; US (US/OSHA)</li> <li>• PEL [Zinc oxide - Respirable fraction] (Inhalation): 5 mg/m<sup>3</sup>; US (Cal/OSHA)</li> </ul>
<b>Titanium(IV) oxide (CAS: 13463-67-7):</b>	<ul style="list-style-type: none"> <li>• PEL [Titanium dioxide] (Inhalation): 5 mg/m<sup>3</sup> (Resp), 15 mg/m<sup>3</sup> (Total); US (US/OSHA)</li> <li>• TWA [Titanium dioxide] (Inhalation): 10 mg/m<sup>3</sup>; AU (AU/SWA)</li> <li>• PEL [Titanium dioxide - Total dust] (Inhalation): 15 mg/m<sup>3</sup>; US (US/OSHA)</li> <li>• REL [Titanium dioxide - Total dust] (Inhalation): Ca, 2.4 mg/m<sup>3</sup> (fine), 0.3 mg/m<sup>3</sup> (ultrafine); US (NIOSH)</li> </ul>

**Appropriate Engineering Controls:** Use material in well ventilated area only. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.

**Individual protection measures, such as Personal Protective Equipment**

**General Information:** Use Personal Protective Equipment as required.

**Eye/Face Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Hand Protection:** Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves. Suitable gloves can be recommended by the glove supplier.

**Other:** Wear gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.

**Respiratory Protection:** Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, a respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

**Hygiene Measures:** Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid

**Form:** Liquid

**Color:** White (or colored)

**Odor:** Slight acrylate

**Odor threshold:** No data available

**pH:** Approximately 7.5-8.6

**Freezing point:** Approximately 0°F

**Boiling point:** 212°F

**Flash point:** N/A

**Evaporation rate:** N/A

**Flammability (solid, gas):** N/A

**Upper/lower flammability or explosive limits**

**Flammability limit – upper (%):** N/A

**Flammability limit – lower (%):** N/A

**Explosive limit - upper (%):** N/A

**Explosive limit – lower (%):** N/A

**Vapor pressure:** 17mm @20°C

**Vapor density:** 0.62

**Relative density:** 1.37

**Solubility(ies)**

<b>Solubility in water:</b>	Miscible with water
<b>Solubility (other):</b>	N/A
<b>Partition coefficient: n-octanol/water:</b>	N/A
<b>Auto-ignition temperature:</b>	N/A
<b>Decomposition temperature:</b>	N/A
<b>Viscosity:</b>	Slightly viscous
<b>Other information</b>	
<b>Bulk density:</b>	No Data available
<b>VOC:</b>	<1%
<b>Percent solid:</b>	Approximately 50 to 70 wt%
<b>Percent volatile:</b>	Approximately 30 to 50 wt%

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## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	Will not occur
<b>Conditions to Avoid:</b>	Do not freeze.
<b>Incompatible Materials:</b>	Strong oxidizers. Titanium(IV) oxide: Strong acids.
<b>Hazardous Decompositions Products:</b>	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, nitrogen oxides and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion, burning or decomposition of dry solids.

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## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Eyes Contact:</b>	No data available
<b>Skin Contact:</b>	No data available
<b>Inhalation:</b>	No data available
<b>Ingestion:</b>	No data available

### Information on toxicological effects

<b>Acute Toxicity Oral: Product:</b>	May cause irritation of the gastrointestinal tract. Not classified for acute toxicity based on available data.
<b>Dermal: Product:</b>	Not classified for acute toxicity based on available data.
<b>Inhalation: Product:</b>	Overexposure to vapors or mist may cause dizziness, headache, nausea, and/or flu-like symptoms. Avoid inhalation of mists or vapors. Persons with sensitive airways (e.g., asthmatics) may react to vapors. Not classified for acute toxicity based on available data.
<b>Skin Corrosion/Irritation:</b>	Not classified as a primary skin irritant. Prolonged or repeated contact may cause irritation. Pre-existing skin conditions may be aggravated by prolonged or repeated exposure.

<b>Serious eye damage/eye irritation: Product:</b>	Not classified as a primary eye irritant.
<b>Respiratory sensitization:</b>	Not classified.
<b>Skin sensitization:</b>	May cause sensitization by skin contact.
<b>Specific target organ toxicity – Single exposure:</b>	No data available
<b>Specific target organ toxicity – Repeated exposure:</b>	Causes damage to organs through
<b>Aspiration Hazard:</b>	No data available

**Carcinogenicity**

<b>Classification:</b>	<ul style="list-style-type: none"> <li>• Carcinogenicity, Category 2 (Suspected of causing cancer)</li> <li>• Contains Titanium(IV) oxide (CAS 13463-67-7), classified as a Category 2 carcinogen by IARC (Group 2B) when inhaled as dust.</li> </ul>
<b>Germ cell mutagenicity:</b>	No data available
<b>Reproductive toxicity:</b>	No data available

**12. ECOLOGICAL INFORMATION**

**Ecology – General:** The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

**Ecology – Water:** Very toxic to aquatic life with long lasting effects.

**Eco toxicity**

<b>Fish</b>	
5-Chloro-2-methyl-4- isothiazolin-3-one-2-methyl-4-isothiazolin-3-one mixture:	<ul style="list-style-type: none"> <li>• LC 50 (Bluegill Sunfish, 4 d): 0.28 mg/l</li> <li>• LC 50 (Rainbow Trout, 4 d): 0.19 mg/l</li> </ul>
<b>Aquatic invertebrates:</b>	EC (Water flea (Daphnia magna), 2 d): 0.16 mg/l
<b>Toxicity to aquatic plants:</b>	No data available
<b>Toxicity to soil dwelling organisms:</b>	No data available
<b>Sediment toxicity:</b>	No data available
<b>Toxicity to microorganisms:</b>	EC 50 (Sludge, 0.1 d): 4.5 mg/l
<b>Persistence and degradability</b>	
5-Chloro-2-methyl-4-isothiazolin-3-one / 2-methyl-4-isothiazolin-3-one mixture:	Miscellaneous, 0%, 28d, Not readily degradable
<b>Bioaccumulative potential (BCF):</b>	No data available
<b>Mobility:</b>	No data available
<b>Other adverse effects:</b>	No data available

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods:

Treatment, storage, transportation and disposal must be in accordance with all applicable local, state and federal regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

## 14. TRANSPORT INFORMATION

DOT: Not regulated

IMDG: Not regulated

IATA: Not regulated

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: None known

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
None present or none present in regulated quantities
- **Superfund Amendments and Reauthorization Act of 1986 (SARA)**  
Hazard categories – Acute (Immediate)
  - **SARA 302 Extremely Hazardous Substance**
  - **SARA 304 Emergency Release Notification**
  - **SARA 311/312 Hazardous Chemical**
  - **SARA 313 (TRI Reporting)**

This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA). For additional information, please contact NanoTech Materials, Inc. directly.

### U.S. State Regulations

- **U.S. California Proposition 65**  
This product may contain chemical(s) known to the state of California to cause cancer and/or birth defects. For additional information, please contact NanoTech Materials, Inc. directly.

### State Right to Know Components

Component	CAS No.	State Listings
Zinc Oxide	1314-13-2	New Jersey, Pennsylvania, Massachusetts
Titanium(IV) oxide	13463-67-7	New Jersey, Pennsylvania, Massachusetts
Calcium Carbonate	1317-65-3	New Jersey, Massachusetts

### Inventory Status

- **Canadian DSL**  
All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
- **United States (TSCA)**  
All components of this product are on the TSCA inventory.
- **EU (REACH)**  
To obtain information on REACH compliance status, please contact NanoTech Materials, Inc. directly.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

## 16. OTHER INFORMATION

### HMIS Hazard ID

- Health: 2
- Flammability: 1
- Physical Hazards: 0

### NFPA Hazard ID

- Health: 2
- Flammability: 1
- Reactivity: 0
- Special Hazard: None

### Source of Information:

Internal company data, suppliers and other publicly available resources.

### Further Information:

Contact supplier (see Section 1)

### Disclaimer:

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