

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Cool Roof Base 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:	Warning
Hazard Statements:	May cause an allergic skin reaction.

Hazard Classification

Skin:	Category 1
Eyes:	Category 1
Inhalation:	Category 1
Ingestion:	Do not ingest.

Precautionary Statements

Prevention:	Avoid breathing dust/fume/gas/mist/vapors or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection during application and use.
Response:	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Disposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of

Acrylic copolymers:	25 – 75 wt%
Aluminum trihydrate filler:	20 – 60 wt%
TiO2 pigments:	2 – 10 wt%

Water:	1 – 5 wt%
Proprietary ingredients:	1 – 5 wt%

4. FIRST-AID MEASURES

Skin:	Wash skin thoroughly with soap and water. If skin irritation or rash occurs: Get medical attention. Launder contaminated clothing before reuse.
Eyes:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.
Inhalation:	Remove exposed person to fresh air, if adverse effects are observed.
Ingestion:	Treat symptomatically. Get medical attention.
More important symptoms/effects, acute and delayed:	Symptoms: See section 11.
Indication of immediate medical attention and special treatment needed:	Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extinguishing	
Suitable extinguishing media:	CO2, dry chemical, foam, water spray, water fog
Unsuitable extinguishing media:	Not determined
Specific hazards arising from the chemical:	See section 10 for additional information. Material will not burn until water has been evaporated. Container may rupture on heating.
Special protective equipment and precautions for firefighters	
Special fire-fighting procedures:	No data available
Special protective equipment for fire fighters:	Wear full protective fire gear including self-containing breathing apparatus operated in the positive pressure mode with full face piece, coat, pants, gloves and boots.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	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.
Methods and material for containment and cleaning up:	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 or inert material. Wash area with soap and water. Spilled liquid and dried film are slippery. Use care to avoid falls.
Environmental Precautions:	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

Precautions for Safe Handling:	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.
Conditions for Safe Storage:	Store in a cool dry place. Keep container(s) closed.
Maximum Handling Temperature:	Not determined.
Conditions for Safe Storage, Including Any Incompatibilities:	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:	None of the components have assigned exposure limits.
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

Appearance

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

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	Do not freeze.
Incompatible Materials:	Strong oxidizers

Hazardous Decompositions Products: 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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eyes Contact:	No data available
Skin Contact:	No data available
Inhalation:	No data available
Ingestion:	No data available

Information on toxicological effects

Acute Toxicity Oral: Product:	May cause irritation of the gastrointestinal tract Not classified for acute toxicity based on available data for suppliers.
Dermal: Product:	Not classified for acute toxicity based on available data.
Inhalation: Product:	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.
Skin Corrosion/Irritation: Product:	Not classified as a primary skin irritant. Remarks: Prolonged or repeated contact may cause irritation. Pre-existing skin conditions may be aggravated by prolonged or repeated exposure.
Serious eye damage/eye irritation: Product:	Remarks: Not classified as a primary eye irritant
Respiratory sensitization:	Remarks: Not classified as a primary eye irritant
Skin sensitization:	Classification: May cause sensitization by skin contact (Literature)
Specific target organ toxicity –Single exposure:	No data available
Aspiration Hazard:	No data available

Other Effects

Acrylic copolymer:	Persons with sensitive always (e.g. asthmatics) may react to vapors.
Chronic effects – carcinogenicity:	No data available
IARC monographs on the evaluation of carcinogenic risks to humans:	No carcinogenic components identified
U.S. National Toxicology Program (NTP) report on carcinogens:	No carcinogenic components identified
U.S. OSHA specifically regulated substances (29 CFR 1910.1001-1050):	No carcinogenic components identified
Germ cell mutagenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity repeated exposure:	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

Fish	
5-Chloro-2-methyl-4- isothiazolin-3-one-2-methyl-4-isothiazolin-3-one mixture:	LC 50 (Bluegill Sunfish, 4 d): 0.28 mg/l LC 50 (Rainbow Trout, 4 d): 0.19 mg/l
Aquatic invertebrates	
5-Chloro-2-methyl-4 isothiazolin-3-one-2-methyl:	EC (Water flea (Daphnia magna), 2 d): 0.16 mg/l
Toxicity to aquatic plants:	No data available
Toxicity to soil dwelling organisms:	No data available
Sediment toxicity:	No data available
Toxicity to microorganisms	
5-Chloro-2methyl-4-isothiazolin-3-one-2methyl-4-isothiazolin-3-one mixture:	EC 50 (Sludge, 0.1 d): 4.5 mg/l
Persistence and degradability biodegradation	
5-Chloro-2-methyl-4-isothiazolin-3-one-2-methyl-4-isothiazolin-3-one mixture:	Miscellaneous, 0%, 28d, Not readily degradable
Bioaccumulative potential bioconcentration factor (BCF):	No data available
Mobility:	No data available
Other adverse effects:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Treatment, storage, transportation and disposal must be in 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. Review classification requirements before shipping materials at elevated temperatures

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.

Inventory Status

- **Australia (AICS)**
This product requires notification before sale in Australia.
- **Canada (DSL/NDSL)**
All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
- **China (IECSC)**
This product requires notification in China.
- **European Union (REACH)**
To obtain information on REACH compliance status of this product, please contact NanoTech Materials, Inc. directly.
- **Japan (ENCS)**
This product requires notification in Japan.
- **Korea (ECL)**
This product requires notification before sale in Korea.
- **New Zealand (NZIoC)**
This product requires notification before sale in New Zealand.
- **Philippines (PICCS)**
This product requires notification before sale in the Philippines.
- **Switzerland (SWISS)**
All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
- **Taiwan (TSCA)**
This product requires notification before sale in Taiwan.
- **United States (TSCA)**
All components of this product are on the TSCA inventory.

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, INCLUDING DATE OF PREPARATION OR LAST REVISION

HMIS Hazard ID

Health	1
Flammability	3
Physical Hazards	0

Hazard rating:

- 0 – Minimal
- 1 – Slight
- 2 – Moderate
- 3 – Serious
- 4 – Severe *Chronic health effect

NFPA Hazard ID



Flammability
 Health
 Reactivity
 Special Hazard

Hazard rating:
 0 – Minimal
 1 – Slight
 2 – Moderate
 3 – Serious
 4 – Severe *Chronic health effect

Version #: 1.0

Source of Information: Internal company data, suppliers and other publicly available resources.

Further Information: Contact supplier (see Section 1)

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