

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Rust Inhibiting Primer

Product Use Description: Water-borne, rust-inhibiting primer and coating for metal roofing and surfaces

Manufacturer: NanoTech Materials, Inc.
 21401 Park Row Drive #360
 Katy, TX 77449

Email: info@nanotechmaterials.com

Telephone: 1-(888) 296-6266

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Physical Hazards: Not Classified.

Health Hazards: Carc. 1A – H350

GHS Label Elements

Hazard Pictograms:



Signal Word: DANGER

Hazard Statements: H350 – May cause cancer.

Contains: Quartz (SiO₂)

Precautionary Statements

Prevention: P201 – Obtain special instructions before use. | P202 – Do not handle until all safety precautions have been read and understood. | P280 – Wear protective gloves / protective clothing / eye protection / face protection.

Response: P308+P313 – If exposed or concerned: Get medical advice/attention.

Storage: P405 – Store locked up.

Disposal: P501 – Dispose of contents/container in accordance with national regulations.

Other Hazards: This product does not contain any substances classified as PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of

Chemical Name	CAS Number	% by Weight
Talc	14807-96-6	2.5–10%
Trizinc bis(orthophosphate)	7779-90-0	10–<25%
Diiron trioxide	1309-37-1	2.5–<5%
Quartz (SiO ₂)	14808-60-7	1–<2.5%

Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	Trade Secret	0.25–<0.5%
N,N-dimethyl 9-decenamide	1356964-77-6	1–10%
Other materials below reportable quantities	—	50–70%

The exact percentage of Isobutyric acid monoester is withheld as a trade secret (29 CFR 1910.1200). This product does not contain any substances classified as PBT or vPvB.

4. FIRST-AID MEASURES

Inhalation:	Move to fresh air; keep warm and at rest. Maintain an open airway. Get medical attention if symptoms are severe or persist.
Ingestion:	Rinse mouth with water. Get medical advice if unwell. Do not induce vomiting unless directed by medical personnel.
Skin Contact:	Rinse with water. Discoloration of skin may occur. Prolonged contact may cause redness, irritation, and dry skin.
Eye Contact:	Remove contact lenses; open eyelids wide. Rinse with water. Get medical attention if discomfort continues.
Most Important Symptoms/Effects:	Severity varies with concentration and duration. Prolonged/repeated exposure may cause cancer. Prolonged inhalation of high concentrations may damage the respiratory system. See Section 11.
Immediate Medical Attention:	Treat symptomatically. Show this SDS to medical personnel.

5. FIRE-FIGHTING MEASURES

General Fire Hazards:	Product is not flammable. Containers can burst or explode when heated due to excessive pressure build-up.
Suitable Extinguishing Media:	Alcohol-resistant foam, carbon dioxide, dry powder, or water fog. Use media suitable for the surrounding fire.
Unsuitable Extinguishing Media:	Do not use water jet — will spread the fire.
Specific Chemical Hazards:	Combustion products may include CO ₂ , CO, acrylic monomers, harmful gases or vapors.
Special Firefighting Procedures:	Avoid breathing fire gases. Evacuate; keep upwind. Cool containers with water spray. Remove from fire area if safe.
PPE for Firefighters:	Wear positive-pressure SCBA and full protective clothing including helmet, boots, and gloves.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Do not touch or walk into spilled material. Avoid skin and eye contact. Wear PPE per Section 8. Keep unauthorized personnel away.
Containment and Clean-Up:	Absorb with sand, earth, or non-combustible material. Label waste containers and remove promptly. Flush area with water. Do not empty into drains. See Section 13 for disposal.
Environmental Precautions:	Avoid discharge to drains, watercourses, or the ground. Notify environmental manager of major spillages.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	<p>Read and follow manufacturer's recommendations. Do not handle until all safety precautions have been read and understood.</p> <p>Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate PPE.</p> <p>Do not handle broken packages without protective equipment. Avoid formation of mists. Keep away from food, drink, and animal feeding stuffs.</p> <p>Wash hands thoroughly after handling. Contaminated work clothing must not leave the workplace. Do not reuse empty containers.</p>
Conditions for Safe Storage:	Store away from incompatibles (see Section 10). Store locked up. Keep in original tightly closed container, cool and well-ventilated. Keep upright. Keep from freezing. Do not store in open, unlabeled, or mislabeled containers.
Shelf Life:	12 months
Minimum Storage Temp:	1°C / 33.8°F
Maximum Storage Temp:	49°C / 120.2°F

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits (8-hour TWA)

Ingredient	CAS No.	OSHA PEL	ACGIH TLV	Category
Quartz (SiO ₂)	14808-60-7	0.05 mg/m³ (resp.)	0.025 mg/m ³ (resp.)	A2 – Suspected Human Carcinogen
Talc	14807-96-6	15 mg/m³ (total)	2 mg/m ³ (resp.)	A4
Diiron trioxide	1309-37-1	10 mg/m³ (fume)	5 mg/m ³	A4
Trizinc bisphosphate	7779-90-0	—	—	—
Titanium Dioxide	13463-67-7	15 mg/m³	10 mg/m ³	A4

A1=Confirmed Human Carcinogen | A2=Suspected Human Carcinogen | A4=Not Classifiable as a Human Carcinogen

Personal Protective Equipment

Engineering Controls:	Provide adequate ventilation. Mechanical/local exhaust ventilation may be required.
Eye/Face Protection:	Wear chemical splash goggles if risk of eye contact exists.
Hand Protection:	Wear chemically protective gloves per OSHA 1910.138. Change gloves at first sign of deterioration.
Body Protection:	Wear appropriate clothing to prevent skin contact.
Respiratory Protection:	If ventilation is inadequate, wear appropriate respiratory protection. Use SCBA for confined spaces or large spill clean-up. Consult industrial hygienist.
Hygiene Measures:	Wash hands after handling. Do not eat, drink, or smoke during use. Provide eyewash station and safety shower. Contaminated clothing must not leave workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Physical State	Liquid
Form	Liquid

Color	Various colors (dark red)
Odor	Mild. Amine.
Odor Threshold	Not available.
pH	Not available.
Melting / Freezing Point	Approx. 0°C (32°F)
Boiling Point	100°C / 212°F (similar to water)
Flash Point	Not applicable (water-based). Solid material will support combustion if water has been evaporated.
Evaporation Rate	Not available.
Flammability (solid, gas)	Not available.
Flammability Limits (upper / lower)	Not available.
Vapor Pressure	17 mm Hg @ 20°C / 68°F
Vapor Density	Not available.
Relative Density	1.2 – 1.5
Solubility in Water	Miscible with water
Partition Coefficient (n-octanol/water)	Not available.
Auto-ignition Temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Slightly viscous
VOC	65 g/liter
Explosive Properties	Not considered to be explosive.
Oxidizing Properties	Does not meet criteria for oxidizing classification.

10. STABILITY AND REACTIVITY

Reactivity:	See other subsections for further details.
Chemical Stability:	Stable at normal ambient temperatures and when used as recommended.
Possibility of Hazardous Reactions:	No potentially hazardous reactions known.
Conditions to Avoid:	Do not freeze. No other known conditions likely to result in a hazardous situation.
Incompatible Materials:	Store away from strong oxidizers. No specific material likely to react hazardously.
Hazardous Decomposition Products:	Does not decompose when used and stored as recommended. Combustion products may include: CO ₂ , CO, acrylic monomers, harmful gases or vapors.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure

Inhalation:	Prolonged inhalation of high concentrations may damage the respiratory system. High concentrations may cause headache, nausea, and dizziness.
Ingestion:	May cause discomfort if swallowed.
Skin Contact:	Discoloration of skin. Prolonged contact may cause redness, irritation, and dry skin.

Eye Contact:	May cause temporary eye irritation, redness, and tearing.
Toxicological Effects	
Acute Toxicity – Oral	Based on available data the classification criteria are not met.
Acute Toxicity – Dermal	Based on available data the classification criteria are not met.
Acute Toxicity – Inhalation	Based on available data the classification criteria are not met.
Skin Corrosion/Irritation	Based on available data the classification criteria are not met.
Serious Eye Damage/Irritation	Based on available data the classification criteria are not met.
Respiratory Sensitization	Based on available data the classification criteria are not met.
Skin Sensitization	Based on available data the classification criteria are not met.
Germ Cell Mutagenicity	Based on available data the classification criteria are not met.
STOT – Single Exposure	Not classified as a specific target organ toxicant after a single exposure.
STOT – Repeated Exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration Hazard	Based on available data the classification criteria are not met.

Carcinogenicity — ▲ WARNING

Carcinogenicity:	MAY CAUSE CANCER after repeated exposure. Contains Quartz (SiO ₂) classified as IARC Group 1 (Carcinogenic to Humans). Risk depends on duration and level of exposure.
IARC Monographs:	Group 1 – Carcinogenic to Humans (Quartz/SiO ₂). No other carcinogenic components identified.
NTP Report:	No additional carcinogenic components identified.
OSHA 29 CFR 1910.1001–1050:	No additional carcinogenic components identified.
Reproductive Toxicity:	Based on available data the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecology – General:	The product contains a substance toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Avoid discharge to the aquatic environment.
Fish:	No data available.
Aquatic Invertebrates:	No data available.
Toxicity to Aquatic Plants:	No data available.
Toxicity to Soil Organisms:	No data available.
Sediment Toxicity:	No data available.
Toxicity to Microorganisms:	No data available.
Persistence/Degradability:	The degradability of the product is not known.
Bioaccumulative Potential:	No data available on bioaccumulation.
Mobility:	Not available.
Other Adverse Effects:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Minimize waste generation. Reuse or recycle where possible. Disposal must comply with all applicable local, state, and federal regulations. Do not empty into drains. Dispose at a licensed waste disposal site.

Contaminated Packaging: Empty containers may retain residues. Take to approved waste handling site for recycling or disposal. Follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Mode	UN No.	Proper Shipping Name	Class	Pkg Grp	Env. Hazard
DOT	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trizinc bis(orthophosphate), Ammonia)	9	III	Yes
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trizinc bis(orthophosphate), Ammonia)	9	III	Yes
ICAO/IATA	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trizinc bis(orthophosphate), Ammonia)	9	III	Yes
TDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trizinc bis(orthophosphate), Ammonia)	9	III	Yes
Titanium Dioxide	13463-67-7	15 mg/m ³		10 mg/m ³ A4	

DOT Reportable Quantity: RQ: Ammonium hydroxide (255,834 / 9,558 lbs/kg)

Special Precautions: Always transport in closed, upright, and secure containers. Ensure transporters know what to do in the event of an accident or spillage.

Shipping descriptions may vary based on mode of transport, quantities, temperature, 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 transportation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

- California Prop 65 – Carcinogens:**
WARNING: The following ingredients are known to the State of California to cause cancer: Silicon dioxide (Quartz/SiO₂); Titanium Dioxide.
- California Prop 65 – Reproductive:**
No Proposition 65 Reproductive Toxins exist in this product.
- State Right-to-Know (NJ, PA, MA, RI, MN):**
The following ingredients are listed: Quartz (SiO₂) 14808-60-7 | Aluminum Oxide | Magnesium Oxide | Calcium Oxide | Diiron Trioxide | Ammonia | Talc | Silicon Dioxide | Titanium Dioxide

International Regulations

- Canadian WHMIS:**
Prepared in compliance with Controlled Product Regulations. WHMIS Class: B2, D1B, D2B.
- Chemical Inventories:**
US TSCA 8(b): All components listed or exempted. Australia (AICS), Canada (DSL), Japan (ENCS), China (IECSC), Korea (KECI), New Zealand (NZIoC), Philippines (PICCS): Not Determined.

The information used to confirm compliance status may deviate from chemical information shown in Section 3. Information in this section is based in large part on phenolic modified alkyd resin present at <40 wt% of final solution.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue Date: 10/24/2024

Version #: 1.1

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

Further Information:

Contact supplier (see Section 1)

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.

