



SAFETY DATA SHEET

NANOSHIELD 1-K Waterborne Primer Coating

Section 1. Identification

Product Name	• NANOSHIELD™ 1-K Waterborne Primer
Product Code	• Nano - 103
Recommended Use	• Rust converting primer
CAS #	• Not applicable
Product type	• Liquid
Color	• Brown
Manufacturer	• NANORUSTX LLC 80 Holmes Street Belleville, NJ 01709
Product Information Telephone Number	• US (973) 751-2200

Section 2. Hazards Identification

Classification of the substance or mixture	• Non Flammable Liquid – Category 0 Harmful if swallowed – Category 1 Irritating to eyes – Category 1 Irritating to skin – Category 1
Signal word	• Warning
Hazard Statement	• May cause eye irritation
Prevention	• Flush eyes thoroughly after eye contact.
Response	• If in eyes: rinse cautiously with water for several minutes remove contact lenses if present. Continue rinsing. If eye irritation persists get medical attention.
Signal word	• Warning
Hazard Statement	• May cause skin irritation
Prevention	• Wear protective gloves
Response	• Wash hands thoroughly with soap and warm water.
Signal word	• Warning
Hazard Statement	• May be harmful if swallowed.
Prevention	• Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	• Call a physician if swallowed. Drink large amounts of milk or water for dilution.
Disposal	• Dispose of in accordance with federal, state and local regulations.
Hazards not otherwise	• Not known



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classified

Section 3. Composition/information on ingredients

CAS number/other identifiers

Ingredient Name	% by Weight	CAS #
Acrylic Polymer	40-60	25133-97-5
Water	30-45	7732-18-5
Iron Oxide	7.00	68186-88-9
Zinc Compounds	5-10	1314-13-2
Phosphate Compounds	5-10	14265-44-2
Alcohol	1.00	25265-77-4

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** • Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check and remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Skin Contact** • Wash with plenty of soap and water.
- Ingestion** • Call a physician if swallowed. Drink large amounts of water or milk for dilution.

Section 5. Fire-fighting measures

- Flash point** • None
- Auto ignition Temperature** • None
- Suitable Extinguishing Media** • Not Flammable

Section 6. Accidental Release Measures

- Personal Protection** • Avoid eye/face contact
- Environmental Precautions** • Keep spills and run off out of municipal sewers and open bodies of water. Do not allow to enter soil/subsoil.
- Clean-up methods** • Contain spillage, soak up with abundant material and transfer for disposal according to local/national regulations.

Section 7. Handling and Storage

- Protective Measure** • Do not get in eyes or on skin or clothing. Keep in original container or an approved alternative made from a compatible material.



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| General occupational hygiene | <ul style="list-style-type: none">• Eating, drinking and smoking should be prohibited where this material is handled, stored and processed. Workers should wash hands and face before eating. |
| Conditions for storage | <ul style="list-style-type: none">• Store in original containers. Keep containers tightly closed when not in use. Store out of direct sunlight between temperatures of 3°C-45°C. Do not freeze. |

Section 8. Exposure controls/personal protection

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| Respiratory Protection | <ul style="list-style-type: none">• NOISH approved N95, N99 or N100 particulate face piece respirator only when spraying. |
| Ventilation | <ul style="list-style-type: none">• Local only to avoid excessive inhalation when spraying. |
| Eye Protection | <ul style="list-style-type: none">• Safety glasses or goggles. |
| Protective Gloves | <ul style="list-style-type: none">• Rubber |
| Other Protective Equipment | <ul style="list-style-type: none">• Work clothing. |
| Work Hygienic Practices | <ul style="list-style-type: none">• Wash hands thoroughly after painting and before eating. |
| Supplemental Safety and Health | <ul style="list-style-type: none">• None. |

Section 9. Physical and chemical properties

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| Physical state | <ul style="list-style-type: none">• Liquid |
| Boiling Point | <ul style="list-style-type: none">• 100°C (Water) |
| Decomposition Temp | <ul style="list-style-type: none">• N/A |
| Spec. Gravity | <ul style="list-style-type: none">• 1.2 |
| pH value | <ul style="list-style-type: none">• 3-3.5 |
| Viscosity | <ul style="list-style-type: none">• 1100 - 1200 cps |
| Color | <ul style="list-style-type: none">• Brown |
| Appearance and Odor | <ul style="list-style-type: none">• Water based coating with mild acrylic odor |
| VOC | <ul style="list-style-type: none">• None |
| Solids by Volume | <ul style="list-style-type: none">• 47% ± 2% |

Section 10. Stability and reactivity data

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| Chemical stability | <ul style="list-style-type: none">• Product is stable under normal use. |
| Stability conditions to avoid | <ul style="list-style-type: none">• Freezing. Avoid direct contact with solvents. |
| Reactivity | <ul style="list-style-type: none">• Stable under normal conditions. |

Section 11. Toxicology information

Our experience has shown no risk to health if handled and processed according to recommendations.

Section 12. Ecological information



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Releases of large quantities into a confined area or into a body of water can substantially alter the nutrient composition affecting plant, aquatic life or animals.

Section 13. Disposal considerations

Waste Disposal Method

- Follow local / national disposal regulations.

Section 14. Transport information

Non-Hazardous goods

- Transport by Land, Sea, Air

Section 15. Regulatory information

Non-hazardous goods under EC regulations

Section 16. Other information

Hazards Material Information System: (USA)

Health	1
Flammability	0
Physical Hazard	0

Hazard Codes: 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate hazard, 3=Serious Hazard, 4=Severe Hazard



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