

# SAFETY DATA SHEET



NanoShield

Nano Shield P01/"FLEX"

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## SECTION 1. IDENTIFICATION

Name of Product	Nano Shield P1 or "FLEX"
Company Name	Nanotech, Inc.
Address	<b>20035 Stonelodge Street Katy, Texas 77450 USA</b>
Phone and fax	+001-979-557-9519
Emergency phone	+001-979-557-9519
Email:	mike@thenanoshield.com

**Trade name:** Nano Shield P01/"FLEX"

**Material number:** 2019005

**HS Code:** 3861.00.0010

**Primary product use:** fire protection

**Chemical family:** White Elastomeric Coating

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

GHS-US Classification

Carc. 2

### 2.2 Label elements

GHS-US labelling

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Hazard pictograms (GHS-US):



Signal word (GHS-US): Warning

Hazard statements (GHS-US): H351 - Suspected of causing cancer.

Precautionary statements (GHS-US): P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, eye protection.  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P405 - Store locked up.



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P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

## SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance / Mixture: Proprietary mixture

Substance Name: Ceramic coating with nano-ceramic particles

CAS Number	Components	% mass
7631-86-9	Amorphous silica	20-35
7732-18-5	Water	20-50
112926-00-8	Silica	05-30
1344-28-1	Alumina	10-18
65997-17-3	Fiberglass	03-30
47400-95-8	Drying Agent	01 - 05

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing.

First-aid measures after skin contact: Wash with water and soap. Rinse with water. Wash skin with plenty of water.

First-aid measures after eye contact: Obtain medical attention if pain, blinking or redness persists. Direct contact with the eyes is likely to be irritating. Rinse eyes with water as a precaution.

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First-aid measures after ingestion: Drink plenty of water. Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: May cause slight irritation.

Symptoms/injuries after eye contact: Irritation of the eye tissue.

Symptoms/injuries after ingestion: No data available.

Chronic symptoms: No effects known.

## SECTION 5. FIRE MEASURES

Product inflammable

Extinguishing form	Not applicable.
Specific hazards of the mixture.	Not applicable
Fire Fighting Team Protective Measures.	Full protective equipment including self-contained breathing apparatus. Water should be used to cool the environment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid contact with eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

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Methods for cleaning up: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the workstation. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use personal protective equipment as required. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.

Hygiene measures: Wash Always wash hands after handling the product thoroughly after handling. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products: Strong bases. Strong acids.

Storage temperature: 4 - 38 °C

Storage area: Keep only in the original container. Protect against frost.

Special rules on packaging: Keep only in original container. meet the legal requirements.

## SECTION 8. EXPOSURE CONTROL / PERSONAL PREOTECTION

Control measures: Not applicable

Engineering Measures: Not applicable

### Personal protection

Appropriate engineering controls	Ensure good ventilation of the workstation.
Recommended Clothing - Skin Protection	Gloves, long-sleeved shirt and boots to prevent contact.
Breathing protection	Ventilation and dust mask are recommended when applying.
Hand protection	Gloves - Recommended Use

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Eye Protection	Recommended wearing glasses
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Environmental exposure controls	Avoid release to the environment
Other protective equipment	Not required
Thermal Danger	Not applicable
Other information	Do not eat, drink or smoke during use

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Color	Light beige
Appearance	Emulsion
Aspect	White or slightly beige
Odor	There is no predominant odor.
PH	Not applicable
Fusion point	Not applicable
Freezing point	0°C
Initial boiling point	100°C
Evaporation Rate	<1
Flash point	Not applicable
Flammability	Non-flammable
Lower / Upper Flammability and Explosive Limits	Not applicable
Vapor pressure	No data available
Vapor density	(Air = 1 ) 3 to 4
Relative density	between 700 and 1000 kg/m <sup>3</sup> (between 1.00 and 1.25 g/cm <sup>3</sup> density) a 15°C
Non-volatile solids	63%
Solubility in water	Soluble in water
Auto-ignition temperature	Not applicable
Decomposition Temperature	>950°C
Viscosity	Range: 20,000 to 50,000 cP

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	Reacts at ambient temperatures and above 100°C
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Chemical stability	Stable at room temperature
Possibilities of hazardous reactions.	Not applicable
Conditions to avoid.	Direct incidence of heat upon storage. Provide minimal natural ventilation of the environment.
Incompatible Materials	Not applicable
Unconcentrated acids and bases, dilute acid atmosphere	Not applicable
Hazardous Decomposition Products	Not applicable

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Not applicable
Skin corrosion / irritation	Skin contact may cause mild irritation.
Serious eye damage / eye irritation	Does not cause serious eye damage. Direct contact with eyes may cause irritation.
Respiratory or skin sensitization.	Not applicable
Germ cell mutagenicity.	Not applicable
Carcinogenicity	Not applicable
Reproductive toxicity	Not applicable
Specific target organ toxicity - single exposure.	Not applicable
Specific target organ toxicity - repeated exposure.	Not applicable
Aspiration hazard	No inhalation hazards.

## SECTION 12. ECOLOGICAL INFORMATION

Ecology - general: The product is not considered harmful to aquatic organisms nor causes long-term adverse effects in the environment.

Ecology: water: Non-toxic to aquatic life

Eco toxicity	Not applicable
Persistence and degradability	Not applicable
Bio accumulative potential	Not applicable
Mobility in soil	Not applicable
Other adverse effects	Not applicable

## SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology: waste materials: Avoid release to the environment

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Recommended Methods for Final Destination	Residues of this material do not constitute a hazard. It should be disposed of in an appropriate place. It should not be incinerated in sealed packaging.
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## SECTION 14. TRANSPORT INFORMATION

National and international regulations.

Land	It does not require specific regulation. It can be transported as a common cargo.
Hydro ways	It does not require specific regulation. It can be transported as a common cargo.
Air	It does not require specific regulation.

For product classified as hazardous for transport: Not applicable

## Section 15. REGULATORY INFORMATION

Specific health and environmental safety regulations for the chemical.	Not applicable
Export Control Classification Number (ECCN)	Not applicable

## SECTION 16. OTHER INFORMATION

Important information, but not specifically described in previous sections.	Not applicable
References	Not applicable

### Further information

Note on the Chemical Weapons convention (CWC) Toxic Chemicals and Precursors List: None known

Revision Date: 7/01/2020