

SAFETY DATA SHEET



NanoShield

NanoShield FP01

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SECTION 1. IDENTIFICATION

Product Name	NanoShield
Company Name	Nanotech, LLC
Address	2606 Hendricks Lakes Dr Spring, Texas 77388 USA
Phone and fax	+001-713-670-4294
Emergency phone	+001-713-670-4294
Email:	john@thenanoshield.com

Trade name: NanoShield FP01

Material number: 2019-001

Primary product use: fire protection and thermal insulation

Chemical family: Amorphous Silica

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200	Not a hazardous substance or mixture
GHS label element	Not a hazardous substance or mixture
Other hazards	Not flammable (flammability)

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Substance Name: Coating cerâmico nano componente a base de água

CAS Number	components	% mass
7631-86-9	Amorphous silica	20-35
7732-18-5	Water	40-60
112926-00-8	Silica	10-20
1344-28-1	Alumina	10-18
65997-17-3	fiberglass	3-25

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SECTION 4. FIRST AID MEASURES

Absorption methods	Skin	impossible
	Ingestion	Possible
	Inhalation	Possible
Carcinogen		Not applicable
First aid	Eye exposure	Flush eyes with water immediately after medical consultation.
	Skin contact	Wash immediately with plenty of soap and water for at least 15 minutes. If clothing and shoes are contaminated, remove and wash before reuse. Get medical attention if irritation develops.
	Ingestion	Ingest water, do not induce vomiting.
	Inhalation	Breathing fresh air helps to breathe. If necessary, See a doctor
	Special precaution	None

Symptoms and late effects	Not applicable
Recommendations for the doctor	Not applicable

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.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:

Steps if material leakage occurs	Spills should be packed in containers for disposal in approved locations.
Waste. Disposal Method	Material is safe to handle; it must be stored in approved places. Observe City, State and Federal Laws
Handling and inventory precautions	Locations should have adequate ventilation. Avoid contact with skin and eyes. Wash hands after handling and handling

Emergency Service Precautions	Wear PPE - Glasses, gloves. Avoid contact with skin and eyes. Use of boots. Observe local ventilation.
Precautions for non-emergency personnel.	Seek only to contain. Do not handle the product. Wear PPE - Glasses, gloves. Avoid contact with skin and eyes. Use of boots.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Maximum stacking 3 packs. Transport the product close to the ground
Conditions for safe storage, including any packaging.	Do not expose to direct sunlight. Keep sealed in a cool, dry place.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control measures: Not applicable

Engineering Measures: Not applicable

Personal protection

Recommended Clothing - Skin Protection.	Gloves, long-sleeved shirt and boots to prevent contact.
Respiratory protection	Ventilation and dust mask are recommended when applying.
Hand protection	Gloves - Recommended Use
Eye Protection - Face	Recommended safety glasses
Other protective equipment	Not required
Thermal dangers	Not applicable

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Color	Light beige
Appearance	High thickness 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
Vapour pressure	Begins 45 and 90 kPa (Begins 337.5 and 675 mm Hg) a 50°C
Vapor density	(Ar = 1) 3 to 4
Relative density	between 900 and 1250 kg/m ³ (between 1.00 and 1.25 g/cm ³ density) a 15°C
Non-volatile solids	63%
Solubility in water	Soluble in water
Auto-ignition temperature	Not applicable
Decomposition Temperature	>1450°C
Viscosity	Kinematics: <7 mm ² /s (<7 cSt) a 40°C

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	Reacts at ambient temperatures and above 100oC
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

Eco toxicity.	Not applicable
Persistence and degradability.	Not applicable
Bioaccumulative potential.	Not applicable
Mobility of substance.	Not applicable
Other adverse effects.	Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

Recommended Methods for Final Destination	Residues of this material do not constitute a hazard. It must 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.
Hydroways	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 (as modal): Not applicable

Section 15. REGULATORY INFORMATION

Specific health and environmental safety regulations for the chemical.	Not applicable
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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: 12/5/2019