EVOLVED.
TEXTILE TECHNOLOGIES

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SAFETY DATA SHEET

Product: NanoTech Fabric Coating

Revision Date: November 2025

Version No.: 1.0

SECTION 1 – IDENTIFICATION

Product Name: NanoTech Fabric Coating

Synonyms: Water-borne thermal and fire-resistant polymer coating

Recommended Use: Heat- and flame-resistant surface coating for textiles, composites, and industrial fabricsx

Restrictions on Use: Not for consumer aerosol application; avoid atomized spraying without ventilation Manufacturer / Supplier: NanoTech Materials

Emergency Number: CHEMTREC 1-800-424-9300 (24 h US)

SECTION 2 – HAZARD IDENTIFICATION

Classification (GHS / OSHA 29 CFR 1910.1200):

Property	Value / Description
Eye Irritation	Category 2B
Skin Irritation	Category 3
Aquatic Chronic Toxicity	Category 3 (due to zinc pyrithione) Signal Word: Warning

Hazard Statements:

Property	Value / Description
H316	Causes mild skin irritation.
H320	Causes eye irritation.
H412	Harmful to aquatic life with long-lasting effects.

Precautionary Statements:

Property	Value / Description
P264	Wash hands and exposed skin after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection during application.

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Precautionary Statements (Continued):

Property	Value / Description
P305 P351 P338	If in eyes: rinse cautiously with water for several minutes; remove contact lenses if present.
P332 P313	If skin irritation occurs: get medical advice.

GHS Pictograms: (Exclamation mark) (Environment symbol)

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Approx. Wt % Range	GHS Classification
Water	7732-18-5	20-30%	Not classified
Carboset RPT 3030 (Acrylic Resin Emulsion)	Proprietary	40-55%	Non-hazardous polymer
Ammonium Polyphosphate	68333-79-9	5-10%	Not classified (Fire retardant salt)
Glass Microspheres	68189-16-2 / 65997	5 – 10 %	Not classified
Pentaerythritol	115-77-5	2 – 6 %	Not classified
Titanium Dioxide	13463-67-7	0.5 – 2 %	Carc. 2 (respirable dust only)
Dispersant (nonionic surfactant blend)	Proprietary	0.5 – 1.5 %	Eye Irrit. 2B
Defoamer (silicone emulsion)	Proprietary	0.5 – 1.5 %	Not classified
Thickener (cellulosic / acrylic)	Proprietary	0.5 – 1 %	Not classified
Zinc Pyrithione (Biocide)	13463-41-7	0.2 – 0.6 %	Acute Aquatic 1; Chronic Aquatic 1

SECTION 4 – FIRST-AID MEASURES

Inhalation	Move to fresh air. Seek medical attention if symptoms persist.
Skin Contact	Wash with soap and water. Remove contaminated clothing. If irritation develops, get medical advice.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting. Seek medical attention if large quantities ingested.
Most important symptoms	Eye and skin irritation possible from surfactants and biocide.

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SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical, CO_2
Specific Hazards	Dry residue may emit ammonia and phosphorus oxides on decomposition. Protective Equipment: Self-contained breathing apparatus for firefighters.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Contain spill. Absorb with inert material (earth, sand).

Avoid discharge to drains.

Clean area with water.

Wear appropriate PPE (eye protection, gloves).

SECTION 7 – HANDLING AND STORAGE

Handle in well-ventilated areas.

Avoid aerosol generation.

Store in closed containers at 5 - 35 °C.

Protect from freezing and direct sunlight.

Keep out of reach of children.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Substance	Limit	Source
Titanium Dioxide	10 mg/m^3 (total dust)	OSHA PEL (8 h TWA)
Calcium Carbonate	15 mg/m^3 (total dust)	OSHA PEL
Amorphous Silica	10 mg/m^3 (TWA)	ACGIH TLV

Engineering Controls	Local exhaust ventilation recommended during spray application.
Personal Protection	Safety glasses / goggles, chemical-resistant gloves, protective clothing.
Respiratory	Not needed under normal conditions; use NIOSH P95 mask for spray mist.

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value / Range
Appearance	White to off-white viscous liquid
Odor	Mild acrylic / ammonia
pH	7 – 8.5
Melting/Freezing Point	≈ 0 °C (water base)
Boiling Point	≈ 100 °C
Flash Point	> 93 °C (non-flammable)
Density	1.05 – 1.15 g/mL
Solubility	Dispersible in water
VOC Content	< 25 g/L
Viscosity	5 000 – 15 000 cP

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable under normal use conditions.
Hazardous Reactions	None known.
Decomposition Products	CO_2, CO, NH_3, Phosphorus Oxides, Metal Oxides.
Incompatible Materials	Strong acids and bases; oxidizers.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure	Inhalation of mist, skin contact, eye contact.
Acute Toxicity	Low oral and dermal toxicity (expected LD_{50} > 2 000 mg/kg).
Skin/Eye Effects	Mild irritation possible.
Sensitization	Not expected under normal handling.
Carcinogenicity	Titanium dioxide classified Carc. 2 only when airborne, unbound and respirable.
Chronic Effects	No known systemic effects at use levels.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	Zinc pyrithione is toxic to aquatic organisms (LC_{50} fish ≈ 0.1 mg/L).
Persistence / Degradability	Polymer and inorganics are largely non-biodegradable but environmentally stable.
Bioaccumulation	Not expected for major components.
Mobility	Water-borne material may disperse in surface runoff if released.

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SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations. Do not pour into drains.

Residues may be classified as non-hazardous solid waste under RCRA unless contaminated.

Empty containers should be rinsed and recycled where possible.

SECTION 14 – TRANSPORT INFORMATION

Mode	UN Number	Proper Shipping Name	Class	Packing Group	Comments
DOT (US)	Not regulated	Not regulated (non-flammable, aqueous)	-	-	Non-hazardous for transport
IMDG / IATA	Not regulated	Not regulated (non-flammable, aqueous)	-	-	Avoid spillage to marine waters (zinc content)

SECTION 15 – REGULATORY INFORMATION

U.S. TSCA	All components listed or exempt.
REACH (EU)	All components registered or covered by existing registration.
California Prop 65	Titanium dioxide (listed only when airborne, unbound, respirable).
RCRA	Not a listed hazardous waste.
SARA 313	Contains zinc compound (< 0.3 %), reportable only if annual use > threshold.
WHMIS (Canada)	Not controlled / irritant classification possible.

SECTION 16 – OTHER INFORMATION

Abbreviations:

U.S. TSCA	Toxic Substances Control Act
REACH (EU)	Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
GHS	Globally Harmonized System

Preparation Date: November 3, 2025

Prepared By: CITRA – Chemical Information & TSCA Regulatory Assistant

Disclaimer: This information is believed to be accurate as of the revision date but is not warranted. It applies only to the product as formulated and not to any use combination or process not specified. User assumes all risk of use and compliance with applicable laws.