



MATERIAL SAFETY DATA SHEET (MSDS)

Fortivene®-Modified Stucco

Manufacturer:

Graphene Solid State Group LLC

Main Location:

30 N Gould St STE R
Sheridan, WY 82801

Production Facility:

1349 Lynn Ave
Bethlehem, PA 18015

Phone:

610-883-8243

1. IDENTIFICATION

Product Name:

Fortivene®-Modified Stucco

Recommended Use:

High-performance exterior and interior stucco applications for enhanced mechanical durability, water resistance, and crack reduction.

Restrictions on Use:

For professional and industrial use only.

2. HAZARDS IDENTIFICATION

Classification (per OSHA 29 CFR 1910.1200):

- Skin Irritation – Category 2
- Eye Irritation – Category 2A
- Specific Target Organ Toxicity (Single Exposure) – Category 3 (Respiratory)

Signal Word:

WARNING

Hazard Statements:

- Causes skin irritation
- Causes serious eye irritation
- May cause respiratory irritation if dust is generated

Precautionary Statements:

- Avoid breathing dust
- Use only outdoors or in well-ventilated areas
- Wear protective gloves, clothing, and eye protection
- Wash hands thoroughly after handling

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration (% by weight)
Portland Cement	65997-15-1	Proprietary
Siliceous Aggregates	14808-60-7	Proprietary
Proprietary Fortivene® Blend	Proprietary	Proprietary (Trade Secret)

Note: The precise formulation is proprietary. Full disclosure will be provided to health professionals or regulators upon request in accordance with 29 CFR 1910.1200(i).

4. FIRST AID MEASURES

Eye Contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

Skin Contact:

Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation develops or persists.

Inhalation:

Move person to fresh air. Seek medical attention if symptoms occur.

Ingestion:

Rinse mouth. Do not induce vomiting. Seek medical attention if discomfort occurs.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Product is non-flammable. Use extinguishing media appropriate for surrounding materials.

Hazardous Combustion Products:

None known under normal use.

Protective Equipment:

Standard protective equipment for surrounding fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid dust formation. Use appropriate PPE.

Environmental Precautions:

Prevent release into waterways or drains.

Methods for Cleanup:

Collect mechanically. Avoid creating dust. Place in suitable container for disposal.

7. HANDLING AND STORAGE

Handling:

- Avoid breathing dust.

- Use PPE.
- Wash hands after handling.

Storage:

- Store in a cool, dry place.
 - Keep containers tightly closed.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Component	OSHA PEL	ACGIH TLV
Portland Cement	15 mg/m ³ (total dust)	1 mg/m ³ (respirable)
Silica (Quartz)	10 mg/m ³ / (%SiO ₂ + 2)	0.025 mg/m ³ (respirable)

Engineering Controls:

Provide local exhaust ventilation where dust is generated.

PPE:

- **Eye Protection:** Safety goggles or face shield
 - **Skin Protection:** Protective gloves and clothing
 - **Respiratory Protection:** NIOSH-approved respirator if exposure limits are exceeded
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey powder or cured solid

Odor: Odorless

pH (wet): >11

Melting Point: Not applicable

Flash Point: Not flammable

Solubility: Slight (reacts to set)

Density: ~2.2–2.5 g/cm³

10. STABILITY AND REACTIVITY

Reactivity:

Reacts with acids. Generates heat and calcium hydroxide when hydrated.

Chemical Stability:

Stable under normal conditions.

Hazardous Decomposition Products:

None under standard use.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:

Inhalation, skin contact, eye contact

Acute Effects:

- Skin and eye irritation
- Respiratory discomfort if dust is inhaled

Chronic Effects:

- Prolonged inhalation of respirable crystalline silica may cause silicosis

Carcinogenicity:

IARC Group 1 (Crystalline Silica)

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Not expected to pose acute hazards in dry form.

Persistence and Degradability:

Not biodegradable.

Bioaccumulation:

Not expected.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, regional, and federal regulations. Do not discharge into waterways.

14. TRANSPORT INFORMATION

UN Number: Not regulated

Transport Hazard Class: Not applicable

Packing Group: Not applicable

15. REGULATORY INFORMATION

OSHA: Hazardous under Hazard Communication Standard

TSCA: All components listed or exempt

California Proposition 65: Contains crystalline silica

16. OTHER INFORMATION

Revision Date:

07/01/2025

Disclaimer:

This information is believed accurate but is provided without warranty. Formulation details are proprietary and protected by trade secret law.