



# MATERIAL SAFETY DATA SHEET (MSDS)

## TruGraphene® Concrete

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**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

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## 1. IDENTIFICATION

**Product Name:**

TruGraphene® Concrete

**Product Use:**

High-performance concrete applications requiring enhanced mechanical strength, durability, and longevity for commercial and infrastructure projects.

**Restrictions on Use:**

Not for consumer DIY use without appropriate training and PPE.

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## 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
- Wear protective gloves, clothing, and eye/face protection
- Use only outdoors or in well-ventilated areas
- Wash hands thoroughly after handling

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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

Note: The precise formulation is proprietary and protected by trade secret law. Additional information will be disclosed to medical personnel or regulatory authorities as required.

## 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 advice if irritation persists.

**Skin Contact:**

Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.

**Inhalation:**

Move to fresh air. If breathing difficulties occur, seek medical attention.

**Ingestion:**

Rinse mouth. Do not induce vomiting. Seek medical attention.

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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**

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

**Hazardous Combustion Products:**

None known.

**Protective Equipment:**

Standard equipment as needed for surrounding fire.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Avoid generating dust. Use appropriate PPE.

**Environmental Precautions:**

Prevent discharge into drains or waterways.

**Cleanup Methods:**

Collect mechanically and place in appropriate container. Minimize dust generation.

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## 7. HANDLING AND STORAGE

**Handling:**

- Avoid dust generation.
- Wear PPE.
- Wash hands after handling.

**Storage:**

- Store in a dry, well-ventilated area.

- Keep containers closed.
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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

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

### Engineering Controls:

Local ventilation recommended.

### PPE:

- **Eye:** Chemical splash goggles
  - **Skin:** Protective gloves and clothing
  - **Respiratory:** NIOSH-approved respirator
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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 harden)

**Density:** ~2.4 g/cm<sup>3</sup>

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## 10. STABILITY AND REACTIVITY

### Reactivity:

Reacts with acids.

### Chemical Stability:

Stable under normal conditions.

**Hazardous Decomposition:**

None known.

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## 11. TOXICOLOGICAL INFORMATION

**Routes of Exposure:**

Inhalation, eye, skin contact

**Acute Effects:**

Irritation to eyes, skin, respiratory tract

**Chronic Effects:**

Respirable crystalline silica may cause silicosis with long-term exposure.

**Carcinogenicity:**

IARC Group 1 (Crystalline Silica)

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## 12. ECOLOGICAL INFORMATION

Not expected to be acutely hazardous to aquatic life.

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## 13. DISPOSAL CONSIDERATIONS

Dispose per local regulations. Do not discharge to waterways.

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## 14. TRANSPORT INFORMATION

**UN Number:** Not regulated

**Hazard Class:** Not applicable

**Packing Group:** Not applicable

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## 15. REGULATORY INFORMATION

**OSHA:** Hazardous

**TSCA:** All components listed or exempt

**California Prop 65:** Contains crystalline silica

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## **16. OTHER INFORMATION**

**Revision Date:**

07/01/2025

**Disclaimer:**

The information herein is believed to be accurate but is provided without warranty. Proprietary formulation details are confidential and protected by trade secret law.