



MATERIAL SAFETY DATA SHEET (MSDS)

Fortivene® Protective Coating

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® Protective Coating

Recommended Use:

Industrial and commercial surface coating for enhanced corrosion resistance, impact durability, and environmental protection.

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)
- Flammable Liquid – Category 3 (if solvent-based)

Signal Word:

WARNING

Hazard Statements:

- Flammable liquid and vapor (if applicable)
- Causes skin irritation
- Causes serious eye irritation
- May cause respiratory irritation

Precautionary Statements:

- Keep away from heat/sparks/open flames
 - Avoid breathing vapors or mist
 - Use explosion-proof equipment (if solvent-based)
 - Wear protective gloves, clothing, and eye protection
 - Wash thoroughly after handling
-

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration (% by weight)
Graphene Nanomaterial	Proprietary	Proprietary (Trade Secret)
Polymer Resin Base	Proprietary	Proprietary
Mineral Fillers and Additives	Proprietary	Proprietary

Component	CAS Number	Concentration (% by weight)
Organic Solvents (if applicable)	Proprietary	Proprietary

Note: Specific formulation is proprietary. Detailed composition available to health professionals or regulators as required.

4. FIRST AID MEASURES

Eye Contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. Seek medical attention 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 symptoms occur, seek medical attention.

Ingestion:

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

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

- Foam, dry chemical, carbon dioxide for solvent-based formulations
- Water spray (cooling only)

Hazardous Combustion Products:

Carbon oxides, metal oxides, and possible trace volatile compounds.

Protective Equipment:

Self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Eliminate ignition sources if applicable. Avoid breathing vapors or dust. Use PPE.

Environmental Precautions:

Prevent entry into waterways or drains.

Cleanup Methods:

Contain spill. Collect with inert absorbent material. Place in sealed container for disposal.

7. HANDLING AND STORAGE

Handling:

- Avoid ignition sources (if flammable).
- Use only in ventilated areas.
- Wear appropriate PPE.
- Wash hands after handling.

Storage:

- Store in a cool, dry, well-ventilated area.
 - Keep container tightly closed.
 - Keep away from heat and ignition sources.
-

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

No established limits for proprietary components; control exposure to nuisance dust and solvents if present.

Engineering Controls:

Provide local exhaust ventilation.

PPE:

- **Eye Protection:** Goggles or face shield
 - **Skin Protection:** Protective gloves and clothing
 - **Respiratory Protection:** NIOSH-approved respirator for dusts or organic vapors as applicable
-

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey or black liquid (or paste)

Odor: Mild solvent odor (if solvent-based)

pH: Not applicable

Flash Point: >23 °C (>73 °F) for flammable formulations

Boiling Point: >100 °C

Solubility: Insoluble in water

Density: ~1.2–1.6 g/cm³

10. STABILITY AND REACTIVITY

Reactivity:

Stable under normal conditions.

Chemical Stability:

Stable.

Hazardous Reactions:

None under recommended use.

Decomposition Products:

Carbon oxides and metal oxides upon combustion.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:

Inhalation, eye contact, skin contact.

Acute Effects:

- Irritation to eyes, skin, respiratory tract.
- Central nervous system effects if solvents are present.

Chronic Effects:

Prolonged exposure to solvent vapors may cause organ effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Not expected to be acutely hazardous.

Persistence:

Non-biodegradable.

Bioaccumulation:

Not expected.

13. DISPOSAL CONSIDERATIONS

Dispose of per local regulations. Do not discharge into waterways.

14. TRANSPORT INFORMATION

UN Number:

May be regulated if flammable—check DOT classification.

Transport Hazard Class:

3 (Flammable Liquid) if applicable

Packing Group:

III

15. REGULATORY INFORMATION

OSHA: Hazardous under Hazard Communication Standard

TSCA: All components listed or exempt

California Proposition 65: May contain trace substances known to cause cancer or reproductive harm

16. OTHER INFORMATION

Revision Date:

07/01/2025

Disclaimer:

The information herein is believed accurate but provided without warranty. Formulation details are proprietary and protected as trade secrets.