



MATERIAL SAFETY DATA SHEET (MSDS)

Fortivene® AutoShield

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® AutoShield

Recommended Use:

Automotive protective coating designed to enhance gloss, provide scratch resistance, UV protection, and long-lasting surface durability.

Restrictions on Use:

For professional automotive application 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 solvent-based)
- Causes skin irritation
- Causes serious eye irritation
- May cause respiratory irritation

Precautionary Statements:

- Keep away from heat/sparks/open flames
 - Use only outdoors or in well-ventilated areas
 - Wear protective gloves, clothing, and eye protection
 - Wash thoroughly after handling
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3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration (% by weight)
Graphene Nanomaterial	Proprietary	Proprietary (Trade Secret)
Polymer Resin Base	Proprietary	Proprietary
Additives and Modifiers	Proprietary	Proprietary
Solvent Blend (if applicable)	Proprietary	Proprietary

Note: Exact formulation is proprietary. Additional details may be provided to health professionals or regulatory agencies upon request.

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. Seek medical attention if symptoms occur.

Ingestion:

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

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Foam, dry chemical, or carbon dioxide. Water spray may be used to cool containers.

Hazardous Combustion Products:

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

Protective Equipment:

Self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Eliminate ignition sources. Avoid breathing vapors or mists. Use PPE.

Environmental Precautions:

Prevent release into sewers and waterways.

Cleanup Methods:

Absorb spill with inert material (sand, vermiculite). Collect in sealed containers for disposal.

7. HANDLING AND STORAGE

Handling:

- Avoid ignition sources.
- Use only in ventilated areas.
- Wear PPE.
- Wash hands after use.

Storage:

- Store in a cool, dry, well-ventilated area.
 - Keep containers tightly closed.
 - Keep away from heat and ignition sources.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

No established limits for proprietary components. Control exposure to nuisance dust and solvents as applicable.

Engineering Controls:

Provide local exhaust ventilation.

PPE:

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

Appearance: Clear or tinted liquid

Odor: Mild solvent odor

pH: Not applicable

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

Boiling Point: >100 °C

Solubility: Insoluble in water

Density: ~1.1–1.4 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 trace volatiles if burned.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:

Inhalation, skin contact, eye contact.

Acute Effects:

- Irritation to skin and eyes
- Respiratory irritation from solvent vapors

Chronic Effects:

Prolonged inhalation of solvents may cause central nervous system effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Not expected to pose acute hazards.

Persistence and Degradability:

Non-biodegradable.

Bioaccumulation:

Not expected.

13. DISPOSAL CONSIDERATIONS

Dispose in compliance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

UN Number:

UN1263 (Paint) if flammable solvent-based

Hazard Class:

3 (Flammable Liquid)

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 the State of California to cause cancer or reproductive harm

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 under applicable trade secret law.