

SAFETY DATA SHEET (SDS)

Version: 3.0

Revision Date: August 1st, 2025

Print Date: August 11th, 2025

Date of first issue: October 1st, 2024

Product Number: SC-650CP

SilexCore Conductive Paint

1. Identification

- **Product Name** : SilexCore Conductive Paint
- **Product Number** : SC-650CP
- **Recommended Use** : Electric conductive coating for various applications
- **Manufacturer/Supplier**

Company : SilexCore Technologies / SPARKNIT INC.
Charlotte, NC 28277
United States of America

Phone: : +1 704 559-5950 / +1 786 816-5748 / +1 786 509-8188

E-Mail : info@silexcore.com

Web site : silexcore.com

2. Hazard Identification

- **Classification:**

GHS Classification under OSHA (29 CFR 1910.1200):

- **Health Hazards:**
 - Skin Irritation: Category 2
 - Eye Irritation: Category 2B

- **Label Elements:**

Signal Word: Warning

Pictogram:



- **Hazard Statements:**

- **H315:** Causes skin irritation
- **H320:** Causes eye irritation

- **Precautionary Statements:**

- **P264:** Wash hands thoroughly after handling
- **P280:** Wear protective gloves and eye protection
- **P302 + P352:** IF ON SKIN: Wash with plenty of water
- **P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- **P332 + P313:** If skin irritation occurs: Get medical advice
- **P337 + P313:** If eye irritation persists: Get medical advice
- **P403 + P233:** Store in a well-ventilated place. Keep container tightly closed

3. Composition/Information on Ingredients

Ingredient	CAS No.	Percentage	Note
Water	7732-18-5	57%	Diluent
Conductive polymer	Trade Secret	1%	Not Classified as Hazardous
Carbon-based materials	7782-42-5	29%	Conductive Filler
Solvent additives	Trade Secret	7%	May contribute to skin/eye irritation
Plasticizer additives	Trade Secret	6%	May contribute to skin/eye irritation

Note: The specific chemical identity and/or exact percentage of certain components has been withheld as a trade secret in accordance with OSHA 29 CFR 1910.1200(i).

4. First Aid Measures

- **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing and seek medical attention.
- **Ingestion:** Do not induce vomiting. Rinse your mouth. Drink plenty of water and seek medical attention if symptoms occur.

5. Fire-Fighting Measures

- **Flammability:** This product is non-flammable.
- **Suitable Extinguishing Media:** Water spray, foam, dry powder, or carbon dioxide.
- **Special Hazards:** In case of fire, hazardous combustion products may include carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

- **Personal Precautions:** It is advisable to avoid direct contact with spilled material to minimize exposure.
- **Environmental Precautions:** Prevent entry into waterways, drains, or soil.
- **Methods for Containment and Cleanup:** Absorb with inert material and dispose of according to local regulations.

7. Handling and Storage

- **Precautions for Safe Handling:** Avoid contact with skin and eyes. Do not ingest. Use appropriate protective equipment.
- **Conditions for Safe Storage:** Store in a cool, dark and dry place away from incompatible materials. Keep container tightly closed.

8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits:**
 - Ensure compliance with relevant local, state, and federal regulations concerning exposure limits for paints and coating materials.
- **Personal Protective Equipment:**
 - Eye protection: Safety glasses.
 - Skin protection: Skin protective Gloves.

9. Physical and Chemical Properties

- **Appearance** Dark Gray Liquid
- **Odor:** Mild or None
- **pH:** 6
- **Boiling Point:** 120°C (248°F)
- **Flash Point:** Not applicable (water-based product)

10. Stability and Reactivity

- **Reactivity:** Not reactive under normal conditions.
- **Chemical Stability:** Stable under normal storage conditions.
- **Hazardous Reactions:** None known.

11. Toxicological Information

- **Likely Routes of Exposure:** Skin, eyes, and ingestion.
- **Symptoms:** Skin and eye irritation when the product is in liquid form. Once dry, the risks are eliminated.

12. Ecological Information

- **Eco-toxicity:** Not classified as hazardous to the environment.
- **Persistence and Degradability:**
 - The product contains a mixture of components with varying degrees of persistence in the environment.
 - Overall, the formulation is designed to minimize environmental impact, with key ingredients exhibiting moderate to low persistence.
 - The components of the product are generally biodegradable and are expected to break down through natural processes under typical environmental conditions.

13. Disposal Considerations

- **Waste Disposal Methods:** Dispose of in accordance with local, regional, and national regulations.

14. Transport Information

- **UN Number:** Not applicable.
- **Proper Shipping Name:** Not classified as hazardous for transport.
- **Transport Hazard Class:** Not applicable.

15. Regulatory Information

❖ Federal Regulations:

This product is regulated under various federal laws, including but not limited to:

- **Toxic Substances Control Act (TSCA):** Regulates the introduction of new or already existing chemicals.
 - **Occupational Safety and Health Administration (OSHA):** Establishes guidelines for hazardous substances and workplace safety.
 - **Consumer Product Safety Act:** Ensures consumer products are safe for use.
 - **Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):** Governs the regulation of pesticide products, if applicable.
- ❖ **State Regulations:** Users are advised to comply with all relevant state and local regulations regarding the handling, use, storage, and disposal of this product. Specific requirements may vary by state, and users should consult their local regulatory agencies for more information.

16. Other Information

- **Disclaimer:** The information provided in this SDS is believed to be accurate and reliable as of the date issued. However, no warranty is expressed or implied regarding its completeness or accuracy. Users are responsible for determining the suitability of the information for their own purposes. SilexCore Technologies and SPARKNIT INC and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.silexcore.com or contact us for more information about additional terms and conditions of sale.
- **Copyright 2025 SilexCore Technologies / SPARKNIT INC.**