

28 York Avenue
 Randolph, MA 02368
 781-961-9600

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING
 A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT,
 NOTIFY: CHEMTREC USA: 1-800-424-9300
 INTERNATIONAL: 703-527-3887 (COLLECT)

SECTION 1 IDENTIFICATION

PRODUCT NAME: ECCOSHIELD LSV
 General Chemical Description: Conductive Polymer

SECTION 2 HAZARDOUS INGREDIENTS

Components	% by Weight	Exposure Guidelines	
		OSHA PEL	ACGIH TLV
Silver	30-50%	0.01 mg/m ³	0.1 mg/m ³
Diisodecylphthalate	10-15%	5 mg/m ^{3*}	5 mg/m ^{3*}

* Recommended exposure level from supplier.

SECTION 3 PHYSICAL DATA

Boiling Point (°F): NA, solid	Melting Point: None
Vapor Pressure at 25°C: Negligible	Vapor Density: NA
Specific Gravity (water=1): >1.5	Volatiles (% by weight): Negligible
Solubility in water: Insoluble	Appearance and Odor: Silver colored solid, no odor

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

WARNING: Polymer product will burn in a fire

Flash Point (°F): NA

Flammable Limits: NA

Extinguishing Media: Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard: Combustion will release silver metal fume

Special Firefighting Procedures: Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment.

SECTION 5 REACTIVITY DATA

Product Stability: Product is stable under normal handling and storage conditions.

Incompatibility: Incompatible with strong oxidizers, strong acids, or strong bases

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrochloric acid, aldehydes, silver compounds, acids and other organic substances may be released during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

Hazardous polymerization: Will not occur.

Conditions to Avoid: NA

SECTION 6 RELEASE RESPONSE DATA

Small Spills: Product is a solid. Collect material in a container for salvage or disposal.

Large Spills: Prevent releases from entering sewers, drains or other waterways. Collect material for salvage or disposal.

Waste Disposal Method: Product as sold does not meet RCRA hazardous waste TCLP regulatory limits and is not a federal EPA hazardous waste. If the physical form of the product is significantly altered or dissolved re-evaluate the waste classification status. Dispose of in accordance with state and local regulations.

SECTION 7 HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

Personal Protection: No personal protection equipment is needed under normal use, however, if the product is handled in a way that generates dust or fumes, protective clothing, gloves, eye protection and respiratory protection should be used.

Ventilation Recommendations and Respiratory Protection: No respiratory exposure is expected under normal product handling. If dust or fumes are generated in some particular application provide effective mechanical exhaust ventilation to draw vapors, dusts or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL or TLV values. Use an appropriate, properly fitted NIOSH approved respirator if exposures exceed PEL/TLV values. The type of protection selected will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

Storage: Store in a cool, dry location with adequate ventilation.

SECTION 8 HEALTH DATA

Product is an article, with no significant potential for exposure under normal use conditions. Potential for exposure to hazardous components would likely occur only if the product is abraded, sanded, shredded or burned in such a manner as to generate dusts, vapors or fumes.

Routes of Exposure: Breathing, skin and eye contact with dusts, vapors or fumes.

Medical Conditions Aggravated by Exposure: Exposure to any dust generated may aggravate preexisting skin, eye or respiratory disorders.

Signs and Symptoms of Overexposure: None known.

Eye Contact:

Acute: Exposure not anticipated unless product is handled in a manner that would generate dusts or fumes.

Chronic: None known.

Skin Contact:

Acute: None

Chronic: Argyria (blueish-black discoloration) may be a potential side effect if silver component dissociates from matrix by grinding or burning

Inhalation: Exposure is not anticipated unless the product is handled in a manner that would generate dusts or fumes.

Acute: Excessive heat can generate vapors or fumes that may cause upper respiratory tract irritation, nausea, and headache.

Chronic: Asthmatic and allergic responses may occur to vapors or fumes. Silver fume may cause diffuse pulmonary fibrosis.

Ingestion:

Acute: Harmful if swallowed. Small pieces of the product may cause esophageal irritation or could present a choking hazard.

Chronic: Conditional esophageal and gastrointestinal tract irritation may result.

Carcinogenicity Statement: This product does not contain chemicals listed by NTP, IARC or OSHA required to be listed as carcinogens on the MSDS by the Hazard Communications Standard.

SECTION 9 FIRST AID PROCEDURES

Eye Contact: Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin Contact: Wash effected areas thoroughly to prevent the potential spread of dust and cross-contamination. Get medical attention if irritation, pain, or swelling persist.

Inhalation: Remove victim to fresh air away from dusts or fumes. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

Ingestion: Remove victim to fresh air away from dusts or fumes. Monitor for respiratory distress. If cough or difficulty breathing develops, evaluate for respiratory tract irritation, blockage, bronchitis, or pneumonitis. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

SECTION 10 ADDITIONAL INFORMATION

CERCLA Status: This product contains Silver (RQ = 1 lb) as a constituent, which requires that the National Response Center be called if an amount equal to or greater than the RQ (Reportable Quantity) is spilled or released into the environment.

RCRA Status: RCRA extraction tests on this product indicate that it is not a TCLP hazardous waste and it is not ignitable, corrosive, or reactive. Dispose of in accordance with any applicable state or local requirements.

TSCA Status: All components of this product are listed in the EPA Commercial Chemical Inventory.

SARA Status: Silver (7440-22-4) listed in Section 2 is subject to the release reporting requirements of SARA Title III Section 313 (40 CFR 372).