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## MATERIAL SAFETY DATA SHEET

### SRE HEATSHRINK END CAPS – HOT MELT GLUE LINED

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#### Section 1: IDENTIFICATION OF THE MATERIAL

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**Product name:** Heat shrinkable end caps coated with hot melt adhesives  
**Part No's:** SRE0, SRE1, SRE2, SRE3, SRE4, SRE4.5, SRE5, SRE6, SRE7, SRE8.  
**Recommended use:** Typical used of heat-shrinkable polymeric products include primary electrical insulation, EMI/RFI shielding, cable jacketing and repair, strain relief, component encapsulation, waterproofing, packaging, environmental and mechanical protection, and cable joining, splicing, and termination in commercial and military/aerospace electronic applications.

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#### Section 2: HAZARD IDENTIFICATION

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**Hazard classification:** Heat-shrinkable polymeric products are not hazardous during proper installation but may emit hazardous thermal decomposition and combustion byproducts if overheated to degradation.

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#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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Base materials: Polyolefin. Heat-shrinkable products may be coated with or used in conjunction with adhesives/mastics which are based on olefin copolymers or polyamides.

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#### Section 4: FIRST AID MEASURES

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Suspected cancer agent: No ingredient of these products that is present at concentrations equal to or greater than 0.1 of the product is listed as a suspect carcinogen.

**Acute effects:**

**Eye Contact:** Product to charring or burning will produce fumes that may cause eye irritation.

**Skin Contact:** Product to charring or burning will produce fumes that may cause skin irritation.

**Inhalation:** In common with most organic materials, degradation and combustion byproducts may be toxic and should not be inhaled. Product to charring or burning will produce fumes that may cause nose and throat irritation.



**Ingestion:** Not a normal route of exposure.

**First Aid procedures:**

**If in eyes:** If eye irritation occurs, flush with water for at least 15 minutes. Seek medical attention.

**If on skin:** If molten adhesive/mastic contacts skin, cool immediately in water. Do not attempt to remove material from the skin - treat as a burn and seek medical attention.

**If inhaled:** Remove to fresh air. Seek medical attention if any breathing problem develops.

**If Ingested:** Not a normal route of exposure. If swallowed, seek medical attention.

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**Section 5: FIRE FIGHTING MEASURES**

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**Extinguishing media:** Carbon dioxide, water, dry chemical or foam can be used.

**Special Protective equipment:** Firefighters should wear self-contained breathing apparatus in enclosed areas.

**Additional Information:** Toxic fumes may evolve in a fire.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

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**Emergency Procedures:**

Please refer to local and state regulations.

**Methods and materials for containment and clean up procedures:**

Please refer to local and state regulations.

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**Section 7: HANDLING AND STORAGE**

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**Precautions for safe handling:**

Heat resistant gloves are required if hot products are handled after installation. Avoid heating products beyond temperatures required for normal installation. If products char or burn, immediately stop heating. Avoid inhaling any fumes which evolve under such circumstances. Allow any fumes to disperse and ventilate before continuing work in the area.

**Installation:**

Follow appropriate installation instructions and applications guides to ensure that installation is performed properly. Ensure that any local requirements/legislation concerning the use of hand-held electrical equipment is observed. When using IR (infrared) heating devices, observe specific instructions. Do not touch hot surfaces in installation equipment.

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**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Engineering controls:**

In accordance with good industrial hygiene practice, ensure ventilation adequate to control exposures below state and federal permissible limits (PELS) during installation.

**Personal Protective Equipment:**

To be based on the operation performed. If there is a danger of molten adhesive or mastic contacting the skin or eyes, use eye/face protection and heat resistant gloves. If there is necessary to handle grossly overheated or fire-damaged products, wear impervious gloves to prevent possible contact with potentially corrosive acid residues.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance:** Plastic tubing and molded parts in a variety of shapes, sizes and colors.  
**Odour:** No odour.  
**Vapour Pressure:** N/A  
**Flashpoint:** N/A

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**Section 10: STABILITY AND REACTIVITY**

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**Chemical Stability:** Stable  
**Conditions to avoid:** Avoid overheating of product.

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**Section 11: TOXICOLOGICAL INFORMATION/EXPOSURE LIMITS**

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None established for polymer mixtures.

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**Section 12: ECOLOGICAL INFORMATION**

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No information available.

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**Section 13: DISPOSAL CONSIDERATION**

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**Disposal methods and containers:**

All products are classified as non-hazardous waste and should be buried or incinerated at approved sites.

**Special precautions for landfill or incineration:** If there are local regulations covering the controlled incineration of halogenated materials, then all flame-retarded products will be subject to such regulations. Refer to the product literature for identification of flame-retarded products.

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**Section 14: TRANSPORT INFORMATION**

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These products are non-hazardous under department because there are no applicable shipping regulations for these products, labels are not required on the outside shipping container for these products and all products may be shipped through the U.S. postal services.

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**Section 15: REGULATORY INFORMATION**

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Please refer to local and state regulations.

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**Section 16: OTHER INFORMATION**

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The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and to develop work practice procedures for a safe work environment.

**DISCLAIMER:** The information contained herein, is to the best of our knowledge and belief; accurate. However, because the condition of handling and use are beyond our control, **we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all federal, state and local laws and regulations.**