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## MATERIAL SAFETY DATA SHEET

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### Section 1: IDENTIFICATION OF THE MATERIAL

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**Product name:** SMDW-Medium Walled Heatshrink

**Part number:** SMDW12/3TK, SMDW22/6TK, SMDW34/9TK, SMDW40/12TK, SMDW56/17TK, SMDW92/26TK, SMDW120/35TK, SMDW140/42TK, SMDW22/6U, SMDW34/9U, SMDW40/12U, SMDW56/17U, SMDW92/26U, SMDW120/35U

**Other names:** Medium Walled Cross-Linked Polyolefin Heatshrink Tube

**Recommended use:** 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:** Non Hazardous During Proper Installation

**Risk phrases:**  
 In common with most organic materials, degradation and combustion by-products may be toxic and should not be inhaled  
 Product to charring or burning will produce fumes that may cause eye, skin, nose and throat irritation.

**Safety phrase:**  
 Not Available

**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.

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### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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**Coat materials:**

Article Number	Common name	CAS number	Content%
LDPE	Low Density Polyethylene	9002-88-4	95
Antioxidant	Pentaerythritol tetrakis(3-(3,5-di-tertbutyl-4-hydroxyphenyl)propionate)	6683-19-8	2
Colorant Masterbatch	Black Colorant masterbatch		3

**Hot Melt Adhesive:**

Article Number	Common name	CAS number	Content%
EVA	Ethylene-vinyl acetate copolymer	24937-78-8	60
PE wax	polyethylene	9002-88-4	24
Rosin	Modified tall oil	8052-10-6	15
Anti oxidant	Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	6683-19-8	1

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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**If Ingested:**

Not a normal route of exposure, if swallowed, seek medical attention.

**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.

(Indication of medical attention and any special treatment needed (notes to physician should include description of most important symptoms, acute and delayed)

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**Section 5: FIRE FIGHTING MEASURES**


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**Suitable Extinguishing media:**

Carbon dioxide, water, dry chemical or foam.

**Hazards from Combustion Products:** Not Available

**Precautions for fire fighters:** Not Available

**Special protective equipment:**

Fire fighters should wear self-contained breathing apparatus in enclosed areas.

**Unusual Fire and Explosion Hazards**

Toxic fumes may evolve in a fire.

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**Section 6: ACCIDENTAL RELEASE MEASURES**


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**Emergency Procedures:**

Not Available

**Methods and Materials for containment and clean up:**

Not Available

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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.

**Conditions for safe storage, including any incompatibilities:**

Not Available

**Special precautions:**

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.

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

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**National Exposure standards:** Not Available

**Biological limit values:** Not Available

**Engineering controls:**

In accordance with good industrial hygiene practice, ensure ventilation is 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 inorganic acid residues.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance:** Plastic tubing and moulded parts in a variety of shapes, sizes and colours.

**Odour:** None

**pH:** Not Available

**Vapour Pressure (MMGH) @ 20°:** Not Applicable

**Vapour Density:** Not Available

**Boiling point/range:** Not Available

**Freezing/melting point:** Not Available

**Solubility:** Not Soluble

**Specific gravity (H<sub>2</sub>O=1) or density:** Not Available

**Flashpoint (Method Used):** Not Applicable

**Upper flammable (explosive) limits in air:** Not Available

**Lower flammable (explosive) limits in air:** Not Available

**Ignition temperature:** Not Available

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**Section 10: STABILITY AND REACTIVITY**

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**Chemical Stability:** Stable

**Conditions to avoid:** Overheating of product.

**Incompatible Materials:** Not Available

**Hazardous decomposition products:** Not Available

**Hazardous reactions:**

Heat-shrinkable polymeric products are not hazardous during proper installation but may emit hazardous thermal decomposition and combustion by-products if overheated to degradation.

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**Section 11: TOXICOLOGICAL INFORMATION**

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**Acute and Chronic health affects:** Not Available

**Possible routes of exposure:**

Inhalation - Possible Effects, information not available.

Skin, Eye and Nose contact - May cause Irritation

**Range of affects following exposure:** Not Available

**Dose, concentration or conditions of exposure likely to cause injury:**

None established for polymer mixtures.

**Delayed affects:** Not Available

**Relevant negative data:** Not Available

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**Section 12: ECOLOGICAL INFORMATION**

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**Ecotoxicity:** Not Available

**Persistence and degradability:** Not Available

**Mobility:** Not 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. 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.

**Special precautions for landfill or incineration:**

Not Available

Dispose of in accordance with all applicable local, state and federal regulations.

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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.

**Domestic Highway**

**UN number:** Not Available

**UN Proper shipping name:** Not Available

**Class and subsidiary risk:** Not Available

**Packing group:** Not Available

**Special precaution for user:** Not Available

**Hazchem code:** Not Available

**Label Required:** None

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**Section 15: REGULATORY INFORMATION**

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**The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation:**

Not Available

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**Section 16: OTHER INFORMATION**

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**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 are observed. when using IR (infrared) heating devices, observe specific instructions. do not touch hot surfaces in installation equipment.

**Date of Preparation/last Revision of the MSDS**

Prepared: July 2011

Last Revision: February 2014 (Addition of part number to range)

New Zealand Emergency Telephone: 111

New Zealand National Poisons Centre Telephone: 0800 POISON (0800 764 766)

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**

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