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## MATERIAL SAFETY DATA SHEET

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### Section 1: IDENTIFICATION OF THE MATERIAL

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**Product name:** Flame Retardant Dual Wall Heat Shrinkable Tubing  
**Part number:** XDW3BK, XDW5BK, XDW7BK, XDW10BK, XDW13BK, XDW20BK, XDW25BK, XDW38BK, XDW51BK  
**Other names:** XDW-Thin Wall-Glue Lined, Thin Wall Heatshrink Tube  
**Recommended use:** Many application in the electrical and mechanical protection areas. Commonly used for break and fuel pipe protection in automotive industry. Typical electrical application include strain relief on cords and insulation repair.

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### Section 2: HAZARD IDENTIFICATION

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**Hazard classification:**  
 Hazards due to contact with the product at high temperature.  
**Risk phrases:**  
 In case of decomposition, releases dangerous products. Note: When decomposed by high heat, or by smoking tobacco or cigarettes contaminated with polymer dust, may cause flu-like illness with fever and chills which will pass within 36-48 hours.  
 Mechanical irritation from the particulates generated by the product.  
**Safety phrase:**

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### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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**Polymer Description:**

Chemical Identity	Common name	CAS number
	Ethylene-vinyl acetate copolymer	24937-78-8
	Antimontrioxide	1309-64-4
	Magnesium hydroxide	1309-42-8
	Aluminium oxide	1344-28-1
	Carbon black	1333-86-4
	Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	6683-19-8
	Zinc oxide	1314-13-2
	1,1'-(Ethane-1,2-diyl)bis[pentabromobenzene]	84852-53-9

**Adhesive Description:**

Chemical Identity	Common name	CAS number
	Hydrocarbon, C6-20, polymers (Hot Melt adhesive)	69430-35-9
	polyethylene	9002-88-4
	Pentaerthrito tetrakis(3-(3,5-di-tert-tuty-4-hydroxypheny)Propionate	6683-19-8

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**Section 4: FIRST AID MEASURES**


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**If Ingested:**

If the subject is completely conscious:

- Negligible

**Eye Contact:**

Flush eyes with running water for several minutes, while keeping the eyelids wide open.

**Skin Contact:**

Negligible for unheated product. In case of contact with molten polymer, cool rapidly with cold water without attempting to peel from the skin. Obtain medical treatment for burns.

**If inhaled:** Negligible

(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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**Flammability:**

Flame retardant

**Suitable Extinguishing media:**

In case of fire in close proximity, most means of extinguishing are acceptable.

**Hazards from Combustion Products:**

- In a fire, the polymer is considered auto-extinguishing and so is unable to propagate fire.
- Strong energy source necessary for ignition.
- Formation of dangerous gas/vapours in case of combustion.

**Precautions for fire fighters:**

- Evacuate all nonessential personnel.
- Intervention only by capable personnel who are trained and aware of the hazards of the product.

**Special protective equipment:**

- In all cases wear self-contained breathing apparatus.
- Wear chemically resistant over-suits.

**Additional Information:**

Protective measures in case of intervention

- After intervention, proceed to clean the equipment (take a shower, remove clothing carefully, clean and check).
- If safe to do so, remove the exposed containers.

- After the fire, proceed rapidly to clean the surfaces exposed to the fumes in order to limit the damage to the equipment.
- As for any fire, ventilate and clean the rooms before re-entry.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

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**Emergency Procedures:**

- Follow the protective measures given in section 8.
- Spilled material can be slipping hazard.

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

- Collect the product with suitable means avoiding dust formation.
- Place everything into a closed, labelled container compatible with the product.
- For disposal methods, refer to section 13.

**Precautions for protection of the environment:**

- Prevent discharges into the environment (sewers, rivers, soils etc.)

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**Section 7: HANDLING AND STORAGE**

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**Precautions for safe handling:**

- Prevent any product decomposition from contacting hot spots.
- Use electrically conductive materials for piping circuits and equipment.

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

- Keep away from heat sources.
- Keep away from combustible substances,

**Other precautions:**

- Grounded equipment.
- Follow the protective measures given in Section 8.
- Prohibit smoking or smoking materials when handling this product.

**Packaging:**

- Carton + Tubing

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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:**

- Follow the protective measures given in section 7.
- Provide local ventilation suitable for the product decomposition risk (see section 9).
- Maintain employee exposures to levels below the applicable exposure limits.

**Personal Protective Equipment:****Respiratory Protection (Specify Type)**

- In case of dust use NIOSH approved dust respirator.
- Self-contained breathing apparatus in medium confinement/insufficient oxygen/in case of large uncontrolled emissions.

#### Hand protection

- Protective gloves against molten polymer.
- Protective gloves, if risk of decomposition.

#### Eye Protection

- Wear safety glasses/protective goggles.

#### Skin protection

- Only necessary to protect against molten polymer.

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### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	Tubing black
<b>Odour:</b>	Odourless
<b>pH:</b>	Not Applicable
<b>Vapour Pressure:</b>	Not Applicable
<b>Vapour Density:</b>	Not Applicable
<b>Density:</b>	Bulk density, From 1.3 to 1.35 g/cm <sup>3</sup>
<b>Boiling point/range:</b>	Not Applicable
<b>Melting point:</b>	from 80 to 100°C
<b>Solubility:</b>	
Insoluble in: Water, Slightly soluble in: Boiled xylene	
<b>Specific gravity (H<sub>2</sub>O=1) or density:</b>	Not Available
<b>Flashpoint:</b>	Not Applicable
<b>Upper flammable (explosive) limits in air:</b>	Not Available
<b>Lower flammable (explosive) limits in air:</b>	Not Available
<b>Ignition temperature:</b>	Not Available
<b>Partition coefficient P (n-octanol/water):</b>	Not applicable
<b>Decomposition temperature:</b>	> 250 °C

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### Section 10: STABILITY AND REACTIVITY

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#### Chemical Stability:

- Stable under certain conditions (see below).
- Decomposition produces dangerous gases upon contact with flames, or hot metallic surfaces.

#### Conditions to avoid:

- Heating the product to its decomposition temperature (see section 9).
- Naked flames, sparks.

#### Incompatible Materials:

Negligible

#### Hazardous decomposition products:

- Particulates of carbon
- Carbon monoxide

#### Hazardous reactions:

Not Available

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### Section 11: TOXICOLOGICAL INFORMATION

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#### Acute and Chronic health affects:

No specific data

**Possible routes of exposure:**

**Range of affects following exposure:**

Biologically inert and little toxicity in bulk form.

Note: Decomposition risk: When decomposed by high heat, or by smoking tobacco or cigarettes contaminated with polymer dust a flu-like illness with fevers and chills may result which will pass within 36-48 hours.

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

Not Available

**Delayed affects:**

Not Available

**Relevant negative data:**

Not Available

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**Section 12: ECOLOGICAL INFORMATION**

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**Ecotoxicity:**

No specific data.

**Persistence and degradability:**

Product is biologically inert and non-degradable.

**Mobility:**

Not Available

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**Section 13: DISPOSAL CONSIDERATION**

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**Disposal methods and containers:**

Dispose of product at a landfill authorized for industrial waste.

**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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**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

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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:**

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**Section 16: OTHER INFORMATION**

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**Date of Preparation**

10 October 2004

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.

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