## Safety Data Sheet

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#### 1. Information about the goods and manufacturer

#### Name of Goods

135°C Mil-Spec Thin Wall Flame-retardant Heat Shrink Tubing

#### **Description of Goods**

Irradiated Polyolefin Thin Wall Heat Shrink Tubing

#### Name of Manufacturer or Supplier of the goods

Premier Farnell 150 Armley Road Leeds LS12 2QQ Tel. : +44 (0) 870 129 8608

#### Emergency telephone number

+44 (0) 870 202530

#### 2. Chemical Properties

Ingredient	Chemical Formula	Function	Percentage	Supplier	CAS No.
Polyolefin	(CH2CH2)n	Main Material	50%	China Sinopec	9002-88-4
Magnesium hydroxide	Mg(OH)2	Flame Retardants	35%	Jinhaohui Material Co., Ltd.	1309-42-8
Brominated flame retardants	-	Flame Retardants	10%	Shanghai Haiyi Co., Ltd	-
Pigment	Pigment	Colorant	5%	Huawangcai Co., Ltd	83524-75-8

#### 2. Chemical Properties

	Toxicological Effects on Heath: After the tubes are ignited, the flame will selfextinguish in a short time. A little fume will give off and have slight harm on the respiratory passage of the human body
Kov	Influence on Environment: It will cause air pollution when the tubes burn.
Key Hazards	Physical and Chemical Hazards: Normally it is in tubular shape, and shrink at 70-125°C, which perhaps is harmful.
	Special Hazards : When roasted or fumigated, the smoke given off will have impact on the eyes and respiratory system, and is harmful to the human body.
Main symptoms: Weep, sneeze, cough, etc. These symptoms can be relieved through breathing fresh air.	
Hazards generated when burning : The tubing will burn for a short period of time after being ignited.	



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### 4. First-Aid Measures

First-aid measures for exposing in different occasions:

Inhalation	: During proper operation, there is no danger caused by inhalation.
Skin contact	: No damage to skin in normal contact. As skin is easily scratched by the tubes, the operators are suggested to put on gloves in operation.
Eye contact	: No harm.
Ingestion	: Not edible
Key harmful effects	: It will impact the respiratory System if you inhale smokes generated by the burning of the tubes.
Protective measures for the rescuers	: Wear respiration protection equipment.
Suggestions to doctor	: Those who have suffered severe damage in respiratory system should keep on inhaling fresh air to relieve the symptom.

#### 5. Fire-fighting Measures

Suitable fire-extinguishing agent	: Dry Powder Extinguisher should be used in order to put out the fire in a short time.
Special harms possibly incurred in fire-fighting	: Small amount of smoke will give off when the tubes burn, which will impact the respiratory system of human body.
Special fire-fighting procedures	: No

#### 6. Emergency measures for leakage

Attentions need to be paid by individuals	: No
Environmental notice	: No
Cleaning Method	: No

#### 7. Operation and Storage

Operation	: The tubes will shrink when heated by oven or heat gun.
Storage	: Pack the tubes with cartons properly and place them at a shady place and at normal temperature.

### 8. Contact controls and personal protection

Contact controls	: Not harmful
Personal protective measures	: No



### 9. Physical and Chemical Properties

Properties		Test Method	Standard	
	Tensile strength /MPa		GB/T1040	≥10.4
	Elongation/%		GB/T1040	≥200
Physical	Tensile strength after aging/MPa		UL 224: 158°C × 168hr	≥7.3
Properties	Elongation after aging/%		UL 224: 158°C × 168hr	≥100
	Heat Resistance		UL 224: 250°C × 4hr	No viscidity No Cracking
	Cold blend		UL 224: -30°C × 4hr	No Cracking
	Dielectric Strength(KV/mm)		GB/T1408	≥15
Electrical Properties	Dielectric	300V	UL 224	No breakdown at 1500V
	Withstand	600V	UL 224	No breakdown at 2500V
	Volume resistance/Ω · cm		GB/T1410	≥1 × 10 <sup>14</sup>
Chemical Properties	Anti Co	orrosion	UL 224 158°C × 168hr	PASS
	Copper stability		UL 224 158°C × 168hr	PASS
	Flamm	nability	UL 224	VW-1

## 10. Stability and Reactivity of the goods

Stability	: Irresolvable
Hazardous effects under special conditions	: If exposed to fire, the products will burn in a short time and give off smoke
Conditions to be avoided	: The products will shrink under high temperature.
Substance to be avoided	: Fire
Hazardous decomposition product	: Smoke

#### 11. Toxicological Information

Acute Toxicity	: No
Partial Effect	: No
Allergic Reactions	: No
Slow toxicity or long-term toxicity	: No
Special Effects	: No

## 12. Ecological Information

Possible effects on environment

: The products are irresolvable naturally and are not harmful to animals, plants and aquatic life.



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#### 13. Waste Disposal

Trash disposal	: It is suggested that he waste be collected to waste-collection station for treatment.
Personal protective measures	: No

#### 14. Transport Information

Regulations on international transportation	: No
U.N. code	: No
Regulations on Domestic transportation	: No
Special transportation method and notice	: Avoid distortion caused by extrusion and damage caused by edged tools.

#### 15. Regulation Information

Applicable regulation : UL224

#### 16. Other Information

Reference : CTI/ITS/SGS Test Report

Part Number

FPHS-0XX-XXXX

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