Safety Data Sheet



1. Information about the goods and manufacturer

Name of Goods

Halogen Free Flame-retardant Normal Wall Heat Shrink Tubing, Shrink ratio 3:1

Description of Goods

Irradiated Polyolefin Normal Wall Heat Shrink Tubing

Name of Manufacturer or Supplier of the goods

Premier Farnell plc

150 Armley Road, Leeds, LS12 2QQ

+44 (0) 8701 202530

1.4. Emergency telephone number

+44 1865 407333

2. Chemical Properties

Ingredient	Chemical Formula	Function Percentage		CAS No.
Ethylene-viny 1 acetate copolymer	(CH2-CH2)m-(CH2-CHCOOCH3)n	Main 50%		24937-78-8
Magnesium hydroxide	Mg(OH) ₂	Flame Retardants	35%	1309-42-8
Phosphorus	Р	Flame 10%		7723-14-0
Pigment	Pigment	Colorant	5%	-

3. Hazard Information

Key Hazards

Toxicological Effects on Heath: After the tubes are ignited, the flame will self-extinguish in a short time. A little fume will give off and have slight harm on the respiratory passage of the human body.

Influence on Environment: It will cause air pollution when the tubes burn.

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.

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.

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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

Special protective equipment for the fire-fighters : Normal fire-extinguishing equipment.

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	Test result
	Tensile strength /MPa		GB/T1040	≥10.4
	Elongation/%		GB/T1040	≥200
Physical Proportion	Tensile strength after aging/MPa		UL 224: 158°C×168hr	≥7.3
Physical 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
Clastical Disposition	Dielectric Strength(KV/mm)		GB/T1408	≥15
	Dielectric Withstand	300V	UL 224	No breakdown at 1500V
Electrical Properties		600V	UL 224	No breakdown at 2500V
	Volume resistance/Ω·cm		GB/T1410	≥1×10 ¹⁴
	Anti Corrosion		UL 224 158°C×168hr	PASS
Chemical Properties	Copper stability		UL 224 158°C×168hr	PASS
	Flammability		UL 224	VW-1

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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.

13. Waste Disposal

Trash disposal : It is suggested that he waste be collected to waste-collection station for

treatment.

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 (All Except Clear)

16: Other information

NA

Part Number

HS511-1.22M

HS511-5M

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