Safety Data Sheet



1. Information about the goods and manufacturer

Product identifier

Name of Goods : 3:1 Dual Wall Flame-retardant Heat Shrink Tubing

Description of Goods : Irradiated Polyolefin Heat Shrink Tubing with meltable adhesive liner

Details of the supplier of the safety data sheet

Premier Farnell 150 Armley Road Leeds LS12 2QQ

Tel.: +44 (0) 8701 202530

Emergency telephone number

+44 1865 407333

2. Chemical Properties

Ingredient	Chemical Formula	Function	Percentage	CAS No.
Ethylene-vinylacetate copolymer	(CH ₂ CH ₂)m-(CH ₂ -CH- COOCH ₃)n	Main Material	50%	24937-78-8
Magnesium hydroxide	Mg(OH)2	Flame Retardants	30%	1309-42-8
DBDPE	C14H4Br10	Flame Retardants	10%	84852-53-9
Anti-oxide	C35H62O3	Antioxidant	1%	6683-19-8
Pigment	Pigment	Colorant	4%	1333-86-4
Printing Ink	-	Print	-	-
EVA	(C2H4)x.(C4H26O2)y	Sealant	5%	-

3. Hazard Information

	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.
Key Hazards	Physical and Chemical Hazards: Normally it is in tubular shape, and shrink at 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.

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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

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
Physical Properties	Tensile strength /MPa	ASTM D2671	≥12.0
	Elongation/%	ASTM D2671	≥300
	Longitudinal Shrinkage	UL224	±8%
	Elongation after aging/%	UL 224: 158°C ×168hr	≥200
Clastrical Draparties	Dielectric Strength (KV/mm)	IEC243	≥15
Electrical Properties	Volume resistance/Ω·cm	UL224	≥1×10 ₁₄
	Corrosion	ASTM D2671	No corrosion
Chemical Properties	Copper stability	UL 224	PASS
	Flammability	UL 224	VW-1

Hot-melt adhesive

Property	Test Method	Test result
Water Absorption	ISO 62	≤0.2%

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Property	Test Method	Test result	
Softening Point	ASTM E28	95°C	
Peel Strength (PE)	ASTM D1000	120N/25mm	
Peel Strength (AL)	ASTM D1000	80N/25mm	

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

16. Other Information

NA

Part Number
HS1201.2M
HS1231.2M
HS1241.2M

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