

## MATERIAL SAFETY DATA SHEET

### I. Product and Company Identification.

Product Name: Environment Flame-Retardant Heat-Shrinkable Tubing
Spec: All Spec.
Name and address of manufacturer or supplier:
Emergency contact number/Fax number:

### II. Composition/Information on Ingredients :

Product Composition	Molecular formula	purpose of use	CAS.No	Percentage Composition
Ethylene-vinyl acetate copolymer	(C <sub>2</sub> H <sub>4</sub> ) <sub>x</sub> .(C <sub>4</sub> H <sub>2</sub> O <sub>2</sub> ) <sub>y</sub>	main dose	24937-78-8	50%
Magnesium Hydroxide	g(OH) <sub>2</sub>	flame retardant	1309-42-8	35%
DBDPE	C <sub>14</sub> H <sub>4</sub> Br <sub>10</sub>	flame retardant	84852-53-9	10%
Pigment	Master color + filler	colorant	---	5%
Printing Ink	---	Printing	---	---

### III. Hazards Identification :

KEY HAZARD ITEM	<p>Health hazard note: Be fired for a moment and will be flameout, it will produce a little smoke, the smoke will hazard breath a little.</p> <p>Environment hazard note: If be fired and pollute the air.</p> <p>Physics and chemistry characteristic: it normal is pipe and will shrink at 70-125°C, that perhaps is harmful.</p> <p>Specific hazard: if be fired or sootiness, it will produce smoke and hurt eyes breath.</p>
Mostly symptom: lachrymation , sneeze ,cough. It will be good after breathing fresh air.	
Fireproofing characteristic: It flames out for a moment after leaving fire.	

### IV. First Aid Measures :

<p>First-aid measures:</p> <p>Normal it is not harmful for breath.</p> <p>Skin touch: Normal it is not harmful for skin</p> <p>Eye touch:Normal it is not harmful for eyes.</p> <p>Ingestion :It can't be eated..</p>
Key symptom: Be fired ,the smoke choke the breath.

First aid defend: Get on gas mask
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Doctor suggest: If breath a lot of smoke ,must breath more fresh air , it can help you to reduce the symptom.
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V. Fire Fighting Measures :

Fire-fighting material medical: Dust farina powder .
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During fire-fighting, special hazard: Be fired ,produce a little smoke , and it can choke the breath.
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Special fire-fighting program: No special program.
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Fire-fighter special dependence: Normal fire-fighting device.
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VI. Accidental Release Measures :

Person notice: No
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Environment notice: No
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Cleaning method: No special method
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VII. Handling and Storage :

Handling: Using oven or heating gun and it will shrink.
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Deposit: At normal temperature paper box package, no sun straight shine.
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VIII. Exposure Controls/Personal Protection :

Exposure Controls: No danger.
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Dependence: No
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IX Stability and Reactivity :

Stability: No decompose
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Special condition, perhaps hazard: If has fire, the production can be fired for a moment and produce a little smoke.
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Please avoid the condition: At heat temperature condition the production will shrink.
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Please avoid the condition: Fire.
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Hazard decompose material: Smoke.
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X Toxicological Information :

Rapid virulence: No
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Part effect: No
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Cause hypersusceptibility : No
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Slowly or long-term virulence: No
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Special effect: No
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XI. Ecological Information :

Perhaps environment effect: The production can't decompose at nature condition, so
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it can't hazard the animal and plant.

XIII. Disposal Considerations:

Trash disposal: Collect and treat for the environment.

.Transport Information:

World wild transportation rule: No

U.N. code: No

Transportation in china rule: No

Special transportation method and notice: Avoid extrusion distortion, edge tool hurt.

XIV. Regulatory Information:

UL224 Comply rule or law: UL224

XV. Other Information

References: None at present

Tabulator Unit	Name:	
	Address:	
lister	R&D:	Review (signature and seal) :
Tabulation Date	July 8, 2022 RevisionDate	Revision Number

# SAFETY DOCUMENT

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## 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: Thermal transfer inked ribbon

Company/undertaking identification:

Registered company name:

Address:

Telephone:

Use of the product:

For thermal transfer printing.

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## 2 - HAZARDS IDENTIFICATION

None

Refer to the recommendations regarding the other products present on the site

Other data:

None

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## 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substances present on their own:

(Present in the article at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

This article contains no hazardous substance in this category.

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

No known substance in this category present.

Other components:

None

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## 4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

None

In the event of splashes or contact with eyes:

Non applicable

In the event of splashes or contact with skin:

None

In the event of swallowing:

Seek medical advice

Specific and immediate treatment:

None

Information for the doctor:

Transmit this Material Safety Document

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## 5 - FIRE-FIGHTING MEASURES

Not relevant.

Suitable extinguishing media:

Water, foam, CO<sub>2</sub>

Extinguishing media which must not be used for safety reasons:

None

Special protective equipment for fire-fighters: /

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

CO, CO<sub>2</sub> release

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## 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Prevent any material from entering drains or waterways.

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

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## 7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Handling:

Avoid inhalation of ink particles in case of flaking.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

None

Prohibited equipment and procedures:

None

Storage:

Keep away from heat

Specific use(s):

None

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## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures:

Personnel shall wear regularly laundered overalls

Respiratory protection:

None

Hand protection:

None

Eye and face protection:

None

Skin protection:

None

Environnemental exposure controls:

None

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## 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: Solid

Important health, safety and environmental information:

pH of the substance or preparation: not relevant.

The pH is impossible to measure or its value is not relevant.

Flash point interval: not relevant.

Vapour pressure: not relevant.

Density: > 1

Water solubility: Insoluble.

Other information:

Melting point/melting range: not specified.

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## 10 - STABILITY AND REACTIVITY

The product is stable at the handling and storage conditions recommended per § 7 of the safety document,

Conditions to avoid:

None

Materials to avoid:

None

Hazardous decomposition products:

None

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## 11 - TOXICOLOGICAL INFORMATION

In the event of exposure by inhalation:

No data available

In the event of swallowing:

Non applicable

In the event of splashes or contact with skin:

None

In the event of splashes or contact with eyes:

None

Classification on the basis of toxicological properties:

Other data:

None

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## 12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

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## 13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste; do not dispose of waste into the environment.

Soiled packaging:

Give to a certified disposal contractor.

Local arrangements:

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

20 01 39 Plastics (Non-Hazardous wastes per COMMISSION DECISION 2014/955/EU of 18 December 2014)

Codes of wastes (Basel Convention):

B3010 Solid plastic waste (Included in the "Green List" per Annex IX - LIST B of Basel Convention)

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## 14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

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## 15 - REGULATORY INFORMATION

None

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## 16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety document is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety document must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

# Material Safety Data Sheet

## I. Product and Company Identification.

Product Name: POLYLAC® PA-758, PA-758R
Product Number:
Name and address of manufacturer or supplier:
Emergency contact number/Fax number:

## II. Hazard Identification

Chemical hazard classification	None (not belonging to GHS 28 hazard classification)
Label content	None (not belonging to GHS 28 hazard classification)
Other hazards	Yes: Fine powder or processing of smoke, into the eyes may cause eye irritation. Skin: High temperature melting state during processing, if contact with skin may cause skin scald. Inhalation: Fine powder or processing smoke, into the respiratory tract may cause irritation. Ingestion: If ingested, it is recommended to take it out

## III. Information on Ingredients

Chemical name	Percentage Composition	CAS.No
Methyl methacrylateAcrylonitrile-ButadieneStyrene Copolymer	>98 %	9010-94-0
Additives	≤2 %	---

## IV. First aid measures

First aid for different exposure routes:	Inhalation If the gas escaping from the molten resin is inhaled, move the patient to a ventilated place and seek medical treatment immediately. Safety data sheet
Skin contact	if contact with rubber particles or rubber powder, rinse with water. In case of contact with glue, rinse the affected area and clothing with plenty of (soapy) water and seek medical attention immediately.
Eye contact	In case of contact with rubber granules or rubber powder, rinse with plenty of water for at least 15 minutes. If you feel unwell, seek



	medical attention immediately. In case of contact with gas escaping from high-temperature molten resin, rinse with plenty of water at least 15Minutes. If you feel unwell, seek medical attention immediately.
ingestion	Eat to induce vomiting, rinse with water, if uncomfortable, immediately seek medical advice.
The most important symptoms and harmful effects	No harm when not processed. During processing, scald damage
Protection of first aid workers	wear dust masks and safety glasses.
Tips for physicians	There is no need for specific antidotes at the physician's suggestion, and supportive therapy is provided according to the patient's symptoms.

#### V. Fire extinguishing measure

Suitable fire extinguishing materials: Water, foam, dry powder
Special hazards that may be encountered during fire extinguishing: None
Special fire extinguishing procedure: Remove combustibles
Special protective equipment for fire protection personnel: Use oxygen-supplied respirators

#### VI. Leakage treatment method

Personal Notes:	If plastic particles or plastic powder are left on the ground, people may slip and fall
Environmental considerations:	To prevent ingestion of birds or fish from the drainage system, complete recovery is required
Cleaning method:	Recycle or discard

#### VII. Safe resolution and storage methods

Resolution	The operating space must be strictly prohibited from fireworks and properly tidy to avoid dust accumulation. To prevent dust explosion, empty The gas transmission line, bag filter and storage tank shall be equipped with electrostatic elimination device and properly grounded. Bag filter The filter material adopts conductive material.
Storage	Store in a cool place, avoid direct sunlight, rain and rapid temperature difference. No fireworks in the storage area

### VIII. Exposure controls measures

Engineering control:	Generally only a good adequate air circulation environment is required, some operations may require partial Exhaust ventilation
Control parameters:	---
Admissible Concentration (TLV)	<p>eight-hour daily dose Average Admissible concentration TWA: not applicable</p> <p>Short time mean allowable Concentration STEL: Not applicable</p> <p>CEILING: Not applicable (test animal, absorption route)LD50: not applicable (Test animal, absorption pathway)LC50: Not applicable</p>
Personal Protective equipment	<p>Respiratory protection: Use a gas mask when cleaning the molding machine.</p> <p>Hand protection: Use leather gloves when touching the glue</p> <p>Eye protection: usually use safety glasses, use goggles when cleaning the molding machine</p> <p>Skin and body protective: long sleeve workwear</p>
Hygiene Measures	Cleaning is recommended if fine powder remains after contact with colloidal particles.

### IX. Physical and chemical properties

State of matter	solid state	Flash point (°C)	> 400
shape	granular	Test method (open or closed cup)	close
Color	transparent	Decomposition temperature (°C)	> 280
smell	tasteless	Spontaneous combustion temperature (°C)	> 400
Olfactory threshold	None	Explosion limit (g/m <sup>3</sup> )	Do not apply
Melting point (°C)	Do not apply	Vapor pressure	negligible

PH	Do not apply	Vapor density	None (Solid)
Boiling point (°C)	Do not apply	Density (g/cm <sup>3</sup> )	1.03 to 1.10
flammability	Do not apply	solubility	not dissolve in water
Octanol/water partition coefficient	None	Evaporation rate	non-volatile

#### X. Stability and reactivity

stability	Good stability when operating and storing according to general procedures
Possible hazard reaction under special conditions	None
Should be exempted from the situation	Avoid long-term storage in high temperature places (>300°C). Under prolonged high temperature, the product may decompose
Substances to be avoided	Strong oxidizer
Hazardous decomposition substance	CO, HCN, AN, SM, and NO
Burning energy	3.53 × 10 <sup>7</sup> J/kg (8424 kcal/kg)

#### XI. Toxicological Information

Exposed way	None
symptom	None
Urgent toxicity	None
Chronic toxicity or long-term toxicity	None
irritation	Smoke and vapors from decomposed rubber can irritate eyes

#### XII. Ecological Information

Ecotoxicity	None
Persistent and degradative	water is insoluble, remaining in a stable state around the environment and exposed to long-term sunlight At present, it is not expected to be decomposed by biochemical action. Bioaccumulation is not applicable
Biological accumulation	Not Applicable
Mobility in the soil	Can not be decomposed by biochemical action, will remain in the land environment in the soil.
Other adverse effects	To avoid being eaten by Marine life or birds, it is strictly forbidden to discard into the sea or water

### XIII. Waste disposal method

Appropriate incineration or burial method. Improper incinerators may produce toxic gases such as CO, HCN, AN and SM.
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### XIV. Shipping Information

International transport regulations	Avoid dampness or careless handling. Packaging should not be damaged.
United Nations Number	If the package is damaged, it will cause the gelatine to spill, and it is easy to slip or fall down Should be dealt with as soon as possible
United Nations Transport Names	inapplicability
Transport hazards Classification	inapplicability
packaging category	inapplicability
Marine pollutants	None
special transport methods	None

### XV. Regulation Information

Regulation	Occupational Safety and Health Act Rules for Occupational Safety and Health Facilities Permissible exposure standards for labor workplaces Road traffic safety regulations Business waste storage, removal and treatment methods and facility standards
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### XVI. Other Information

References: None at present		
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	Address:	
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