

MATERIAL SAFETY DATA SHEET(MSDS)

Issued: 06/10/2011

1. Product and Company Identification

Chemical material name: Polyester Protective Tape
 Name of Product: PONA-100
 (Chemical name, brand name etc.)
 Chemical product code:
 Company Name of the supplier: **Pantech Tape Co., Ltd.**
 Identification: Address: No. 8, Alley 98, Lane 800, Chung-Shan South Road,
 Yangmei, Taoyuan, Taiwan
 A section in charge: Quality Assurance Manager
 Telephone Number: 886 – 3 – 475 8949
 Fax Number: 886 – 3 – 475 8957
 Emergency telephone No. 886 – 3 – 475 8949

2. Composition / information on ingredients

Distinction between a substance and a preparation: Compound

| | | | | | |
|--|----------------|---------------|------------------|----------------|---------------|
| The common chemical name or the generic name | Polyester film | Polyolefin | Acrylic Adhesive | Polyester film | Silicone |
| Synonyms name | Base material | Base material | Adhesive | Release liner | Release agent |
| Contents | 44.2 % | 23.2 % | 10.4 % | 22.1 % | 0.1 % |

3. Hazards identification

Most important hazards and effects of the product:

Adverse human effects: Nothing particular
 Hazards classification: Not applicable
 Specific hazards: Nothing particular

4. First-aid measures

Inhalation: Generally no possibility of inhalation.
 Skin contact: Wash it out with large amount of water and soap
 When a skin rash is developed, consult a doctor immediately.
 Eye contact: Immediately wash it off with running water for more than 15 minutes.
 Ingestion: After vomit, consult a doctor if necessary
 A brief description of the most important symptoms and effects: Nothing particular
 Protection of First - aiders: Nothing particular
 Special notes to a physician: Nothing particular

5. Fire-fighting measures

Extinguishing media: Volumes of water, ABC extinguishers, power extinguishers,

Protection of firefighters dioxide extinguishers. If needs, use Gas mask and Goggles.

6. Accidental release measures

Personal precautions: None due to no possibility of release
 Environmental precautions: None due to no possibility of release
 Methods of clean up
 Recovery: None due to no possibility of release
 Neutralization: None due to no possibility of release
 Disposal: Please process it as industrial waste based on local regulations, contact an authorized industrial waster treatment company for off-site disposal

7. Handling and storage

Handling
 Technical measures: Nothing particular
 Precautions: Nothing particular
 Safe handling advise: Nothing particular
 Storage
 Technical countermeasures: Nothing particular
 Incompatible products: Nothing particular
 Storage conditions
 Suitable storage condition: Avoid direct sunlight, and store it in a room at normal
 Storage conditions to be avoided: Avoid storage at transformation situation
 Packing material
 Recommended: Packing form of the product
 Unsuitable: Nothing particular

8. Exposure controls / personal protection

Personal protective equipment
 Respiratory protection: Not required
 Hand protection: Not required
 Eye protection: Not required
 Skin and body protection: Not required

9. Physical and chemical properties

Physical state
 Form: Roll type (Article)
 Color: Adhesive: All color
 Odour: Nothing particular
 PH: No data
 Inflammability: Flame retardant grade, but still have possibility to cause fire
 Specific temperature / temperature ranges at which changes in physical state occur
 Boiling point: No data
 Boiling range: No data
 Fusing point: No data

Flash point: No data
 Density: about 1.4
 Solubility with indication of the solvent: Insoluble in water

10.Stability and reactivity

Stability: Stable under normal environment
 Possible hazardous reactions occurring: No data
 Under specific conditions:
 Condition which should be avoided: Please avoid high temperature, high humidity, sunlight directly
 Material which should be avoided: No data
 Hazardous decomposition products: No data

11.Toxicological information

Acute toxicity: None
 Caustic: None
 Specific influence
 Mutation field: None

12.Environmental influence information

Information on fate
 Mobility: No data
 Persistence / degradability: No data
 Bioaccumulation: No data
 Ecotoxicity: None

13.Disposal considerations

Product: Please process it as industrial waste based on local regulations.
 When burning it, use an incinerator which satisfies its technical guidelines (the residence time is 2 seconds or more at a temperature of 800°C or more).
 Contact an authorized industrial waste treatment company for Off-site disposal.
 Waste form residues: Same as above
 Pollution container and wrapping: Package: Contact a recycling manufacturer.

14.Transport information

Information for code and classification at international regulations

Land: Follow the general cautions in the section “Handling and Storage”.
 Make sure the container is free form leakage. Load properly to prevent the container form shock, falling or breaking. Follow fire protection law and labor safety hygiene law, according to each pertinent law to convey.
 Inland waterways: Follow the general cautions in the section “Handling and Storage”.
 Make sure the container is free form leakage. Load properly to prevent the container form shock, falling or breaking.
 Sea: Follow the general cautions in the section “Handling and Storage”.
 Make sure the container is free form leakage. Load properly to prevent the container form shock, falling or breaking.

Air: Follow law for Safety of Vessels.
Follow the general cautions in the section "Handling and Storage".
Make sure the container is free from leakage. Load properly to prevent the container from shock, falling or breaking.
Follow aviation law

The UN classification number: None

15.Regulatory information

Regulations:

Fire protection law: Specified combustible.

16.Other information

- a. Handle this product with great care, since the evaluation of its danger and toxicity may not be sufficient.
- b. The above information is based on the most up-to-date data, yet the values of content and physical / chemical properties are not guaranteed.
- c. The cautionary statements are applicable for ordinary handling only. For special handling, please devise safety measures appropriate for the use.