



Date of Issue : September 1, 2002

Date of Revision: December 1, 2004

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND MANUFACTURER INFORMATION

PRODUCT NAME : Shin-Etsu Carrier Tape (PS Include Carbon Type)
 MANUFACTURER : Shin-Etsu Polymer Co.,Ltd.
 SECTION IN CHARGE : EP Group , Precise Product Division
 ADDRESS : 1-406-1 , Yoshino-cho , Kita-ku , Saitama-shi , Saitama
 330-0811 , Japan
 TEL : +81-48-652-6040 FAX : +81-48-652-6092
 EMERGENCY CONTACT : Urawa Polymer Co.,Ltd. Engineering Department
 TEL : +81-480-52-0085 FAX : +81-480-52-0044

2. COMPOSITION / INFORMATION ON INGREDIENTS

SINGLE PRODUCT OR MIXTURE : Mixture

INGREDIENTS :

(CHEMICAL NAME)	(CONTENT)	(CAS No.)
Polystyrene Resin	more than 90 %	9003-53-6 and 9003-55-8
Carbon Black	less than 5 %	1333-86-4

3. HAZARDS IDENTIFICATION

DANGEROUSNESS : Not dangerous in usual handling. In case of fire, can burn
 in a fire, releasing hazardous gases and fumes.
 HARMFULNESS : Not applicable
 ENVIRONMENTAL EFFECTS : No data

4. FIRST AID MEASURES

INHALATION : Not applicable
 SKIN CONTACT : Not applicable
 EYE CONTACT : In case of contact with the fragments, comply with
 general treatment as for foreign substances.
 INGESTION : Take the remnant out of mouth and consult with a
 doctor immediately.

5. FIRE FIGHTING MEASURES

- METHOD OF EXTINGUISHING : Apply a common method of extinguishing.
In case of fire, be careful with the fumes and gases as it contains volatile substances such as oxides of carbon and styrene.
- EXTINGUISHING MEDIA : Water, dry chemical, foam, carbon dioxide
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6. ACCIDENTAL RELEASE MEASURES

: Not applicable

7. HANDLING AND STORAGE

- HANDLING : Protect the product from any damage caused by fall-down, drop or out-of-shape load. Prevent contact with heat, flame and organic solvents.
- STORAGE : Store in a room with normal temperature and humidity.
Avoid direct sunlight and keep away from heat, flame and water.
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8. EXPOSURE CONTROL / PERSONAL PROTECTION

- EQUIPMENT MEASURE : Not Applicable
- CONTROL DENSITY : Not Applicable
- PERMISSIBLE DENSITY : Not Applicable
- PROTECTIVE GEAR
- RESPIRATORY PROTECTION : Not Applicable
- EYE PROTECTION : Not Applicable
- PROTECTIVE GLOVES : It is preferable to wear protective gloves, if necessary.
- PROTECTIVE CLOTHES : It is preferable to wear protective clothes, if necessary.
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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: (color) Black, Plastic embossed carrier tape
MELTING POINT	: Not applicable
FLASH POINT	: Not applicable
IGNITION POINT	: Not applicable
SPECIFIC GRAVITY	: 1.1
COMBUSTIBILITY	: Combustible
IGNITABILITY	: Not applicable (No spontaneous combustibility. No reactivity with water.)
SOLUBILITY	: Insoluble in water. Soluble in MEK, benzene, and toluene.

10. STABILITY AND REACTIVITY

STABILITY	: Stable under normal handling conditions.
REACTIVITY	: None
HAZARDOUS DECOMPOSITION PRODUCTS	: Resolves at high temperature, and releases oxides of carbon and irritating styrene-gases.

11. TOXICOLOGICAL INFORMATION

No information is available concerning the toxicity of this product.

12. ECOLOGICAL INFORMATION

Resolution	: No data
Accumulation	: No data
Toxicity to fish	: No data
Others	: Do not dump the product into the ocean or river to avoid ingestion by living creatures.

13. DISPOSAL CONSIDERATION

Landfill or burn in an incinerator equipped with an after-burner or exhaust gas cleaner.
Comply with laws and regulations.

14. TRANSPORT INFORMATION

Protect the product from any damage caused by fall-down, drop or out-of-shape load.
Avoid a large increase in temperature. Keep away from fire.

15. REGULATORY INFORMATION

None

16. PROHIBITION OF MISUSAGE

Do no use this product other than in combination with proper cover tape.

17. OTHER INFORMATION

The contents of this Material Safety Data Sheet are based on generally available information and the in-house information. Be advised that the contents do not represent the result of a research covering all aspects of the latest scientific and technical information.

Therefore, they do not serve as a guarantee against anything whatsoever.

Notices herein are stated for normal handling. Special handling may have special other requirements.
