



Material Safety Data Sheet

DATE ISSUED: 2003/11/04

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REV. No.: No.003

1. PRODUCT INFORMATION :

Product Grade : 301 MM/T/S/SS/F/H、351 MM/T/S/SS/F/H、361 MM/T/S/SS/F/H
391 MM/T/S/SS/F/H
Manufacturer : TAITA CHEMICAL CO LTD.,
NO. 3, Chen Chi St.Chein Chen, Kaohsiung, Taiwan
TEL : 886-7-821-9521
FAX : 886-7-811-2150
Trade Name : TAITACELL EPS RESIN.
Chemical Name : Expandable Polystyrene.
Synonyms : EPS. (Expandable Polystyrene)
Formula : (C₈ H₈)_n

2. HAZARD IDENTIFICATION :

GHS Classification:

The product does not require a hazard warning label in accordance with GHS criteria.

Potential Health Effects :

Most Important Hazards	None.
Adverse Human Health Effects	None.
Environmental Effects	None.
Physical and Chemical Hazards	None.

3. INGREDIENTS :

Component	CAS No.	%
Polystyrene	9003 - 53 - 6	91.5 min.
Styrene	00100 - 42 - 5	0.3 max.
Pentane	109-66-0	7.5 max.
Water	7732-18-5	0.5 max.

4. FIRST AID MEASURES :

Inhalation : In case of gases evolving from melted resin, move subject to fresh air.
Treat symptomatically.



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TAITACELL EPS RESIN

Skin Contact : In case of pellets or powder, wash with water.
In case of melt, wash affected skin area and clothing with plenty of soap and water, seek medical advice.

Eye Contact : In case of pellets or powder, flush with plenty of water for at least 15 minutes.
Seek medical advice if any dust particles still remain.
In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.

Ingestion : Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

5. FIRE-FIGHTING MEASURES :

Extinguishing Media Water, Foam, Dry chemical extinguish media.
Special Fire-Fighting Procedure Self contained breathing apparatus and turnout gear.
Fire and Explosion Hazards None
Unusual Fire and Explosion Hazards : If exposed to fire , high heat will be developed and heavy black smoke will result. During combustion , carbon monoxide will be produced.

6. ACCIDENTAL RELEASE MEASURES :

Methods for Cleaning Up Recovery if not contaminated or disposal.
Personal Precautions Pellets or powder remained on ground may cause slipping.
Environmental Precautions Gather pellets and powder thoroughly to avoid water pollution

7. HANDLING AND STORAGE :

Handling Keep away from fire and sources of ignition. Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of static electricity build-up, electrostatics eliminators and grounding such as air transferring pipes, electrically conductive bag filters and hoppers should be fixed to equipment.

Storage Keep the materials in a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Store in a fire inhibited area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION :

Threshold Limit Value Not determined
Ventilation Necessary to exclude dust, fumes and gases.
Personal Protection : Eye Wear safety glasses for general purpose. Wear chemical



goggles for cleaning molding machines.
Respiratory Wear masks for cleaning molding machines.
Gloves Necessary for handling melted resin.

9. PHYSICAL AND CHEMICAL PROPERTIES :

Melting Point	: 90 °C	Specific Gravity	: 1.04
Appearance	: Beads	Solubility in water	: Nil
Color	: White	Odor	: Pentane

10. STABILITY AND REACTIVITY :

- Stability : stable
- Conditions to Avoid : Heat, sparks and flames.
- Chemical Incompatibility : Aromatic solvents.
- Hazardous Decomposition Products : Carbon monoxide.
- Hazardous Polymerization : Does not occur.
- Corrosive to meter : No
- Oxidizer : No

11. TOXICOLOGICAL INFORMATION :

Toxicological Test Date :
Pentane : Narcosis and respiratory irritation caused by overexposure to vapors.

Effects of overexposure :
Overexposure to Pentane vapors : defatting of skin , irritation of eyes , dizziness and loss of coordination.

12. ECOLOGICAL INFORMATION :

For the safety of ocean species and birds, disposal of the waste to the ocean and water courses is inhibited.

13. DISPOSAL CONSIDERATIONS :

Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution.
Inadequate incineration may generate toxic gases such as CO and SM.

14. TRANSPORT INFORMATION :

Taita Chemical Company, Limited



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MSDS- EPS
Ver. : 3.0

台達發泡性聚苯乙烯
TAITACELL EPS RESIN

Hazard class: 9

Packing group: III

ID number: UN 2211

15. REGULATORY INFORMATION : Not available

16. OTHER INFORMATION : None
