



## SAFETY DATA SHEET

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REV. No.: No.012

### 1. PRODUCT INFORMATION :

PRODUCT GRADE	301MM/T/SB/S/SS/F/H ; 361MM/T/S/SS/F/H 391MM/T/SB/S/SS/F/H ; 351MMA /TA /SA /SSA /FA /HA 351SBAA/SAA/SSAA
SUPPLIER	TAITA CHEMICAL CO. LTD., / KAOHSIUNG BRANCH No. 3, Jianji St. Qianzhen District, Kaohsiung City 806, Taiwan TEL : 886-7-810-0866 FAX : 886-7-811-2150
TRADE NAME	TAITACELL EPS RESIN.
CHEMICAL NAME	Expandable Polystyrene.
SYNONYMS	EPS. ( Expandable Polystyrene )
FORMULA	( C <sub>8</sub> H <sub>8</sub> ) <sub>n</sub>
USED FOR	Processed into buffer packing materials

### 2. HAZARD IDENTIFICATION :

#### GHS Classification:

EPS belongs to a flammable solid.



#### Potential Health Effects :

Eye : Dust and process vapors may irritate eyes.

Skin : Exposure to molten resin may cause thermal burns.

Inhalation : Dust and process vapors may cause respiratory tract irritation.

Ingestion : Essentially no hazards anticipated from swallowing small amounts incidental to normal handling operations. Single dose oral toxicity is considered to be extremely low.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS :

Component	CAS No.	Percentage (%)
Polystyrene	9003 - 53 - 6	92.0 min.
Styrene	00100 - 42 - 5	0.5 max.
Pentane	109-66-0	7.0 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.
Skin Contact	In case of pellets or powder, wash with water.. In case of melted resin, 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 extinguishing 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 develop 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES :

Appearance	Clear beads
Odor	Pentane
Softening Point	≥ 90 °C
Melting Point:	—
Specific Gravity	1.04
Solubility in Water	Insoluble
Flash point	: 63 °C (Cleveland Open Cup, COC)-ASTM D92

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## 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

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## 11. TOXICOLOGICAL INFORMATION :

### Toxicological Test Date

Pentane	Narcosis and respiratory irritation caused by overexposure to vapors.
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### Effects of Overexposure

Overexposure to Pentane	Vapors may cause defatting of skin, irritation of eyes, dizziness and loss of coordination.
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## 12. ECOLOGICAL INFORMATION :

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

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## 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.



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**14. TRANSPORT INFORMATION :**

Proper shipping name : Polymeric Beads, Expandable  
Hazard class: 9  
Packing group: II/III  
ID number: UN 2211  
Hazard label: 9

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**15. REGULATORY INFORMATION :**

- 1.Occupational Safety and Health Action. (Taiwan)
- 2.Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace (Taiwan)
- 3.Criteria Governing Methods of and Facilities for Storage, Clearance and Treatment of Industrial Wastes (Taiwan)
- 4.Section 84 of the Road Traffic Safety Rules (Taiwan)
- 5.Regulations of Hazard Communication on Dangerous and Harmful Materials (Taiwan)

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**16. OTHER INFORMATION :**

**Tabulation :** Taita Chemical Company, Limited. R & D Dept.

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