



## Safety Data Sheet

DATE ISSUED: 04/11/03

DATE REVISED: 2016/01/05

REV. No.: No.006

### 1. PRODUCT INFORMATION :

Product Grade : 321 MM/T/S/SS/F/H  
SUPPLIER : TAITA CHEMICAL CO. LTD., / KAOHSIUNG BRANCH  
NO. 3, Chen Chi St. Chein Chen, Kaohsiung, 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>

### 2. HAZARD IDENTIFICATION :

#### GHS Classification:

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

#### 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. INGREDIENTS :

Component	CAS No.	%
Polystyrene	9003 - 53 - 6	92.0 min.
Styrene	00100 - 42 - 5	0.1 max.
Pentane	109-66-0	7.0 max.
Hexabromocyclodecane	3194 - 55 - 6	1.0 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.



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Treat symptomatically.

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 or fishes taking from draining water.

## 7. HANDLING AND STORAGE :

Handling : Prevent from fire around handling area. Maintain good house keeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of power, electrostatics eliminators and grounding should be fixed to such equipments as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.

Storage : Keep the materials at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited storage area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION :

Threshold Limit Value Not determined

Ventilation Necessary to exclude dust, fumes and gases.



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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 :

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

Effects of overexposure :

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

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## 12. ECOLOGICAL INFORMATION :

To avoid being taken by ocean species or 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 :

Hazard class: 9  
Packing group: 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.

**Addresses** : No. 3, Jianji St. Qianzhen District, Kaohsiung City 80672, Taiwan

**Tel** : (886)-7-810-0866

**Fax** : (886)-7-811-2150

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