

Address : NO.5, INDUSTRIAL 1ST RD., LINYUAN DIST., KAOHSIUNG, TAIWAN Tel : (886) 2-8751-6888

SDS-FR EPS Ver. : 12.0

<u>台達發泡性聚苯乙烯</u> TAITACELL FPS RESIN

SAFETY DATA SHEET

DATE ISSUED: 2004/11/03

DATE REVISED:2024/01/10

REV. No.: No.012

1. PRODUCT INFORMATION :

Fax : (886) 2-2650-3260

PRODUCT GRADE	321 MM/T/S/SS/F
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 ₈ H ₈)n
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	91.0 min.
Styrene	00100 - 42 - 5	0.5 max.
Pentane	109-66-0	7.0 max.
Water	7732-18-5	0.5 max
Flame retardant agent*		1.0 max
(Non-hexabromocyclodecane)		

*Non-HBCD specifications for flame retardant expandable polystyrene product of taita chemical company,



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flame retardants contain CAS No.1195978-93-8 or other bromine compounds, but doesn't include the hexabromocyclodecane (HBCD).

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 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 shoud 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



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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.

PERSONAL PROTECTION :

Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines. Eye

Respiratory Wear masks for cleaning molding machines.

Necessary for handling melted resin. Gloves

9. PHYSICAL AND CHEMICAL PROPERTIES :

Appearance	Clear beads
Odor	Pentane
Softening Point	\geq 90 $^{\circ}\mathrm{C}$
Melting Point:	—
Specific Gravity	1.04
Solubility in Water	Insoluble
Flash point : 63 $^{\circ}$ C	(Cleveland Open Cup, COC)-ASTM D92

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 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.

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 :

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

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)

16. OTHER INFORMATION :

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

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

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