



MATERIAL DATA SAFETY SHEET

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REV. No.: No.001

1. PRODUCT INFORMATION :

PRODUCT GRADE	Taitacell Flame Retardant EPS
MAUNFACTURER	TAITA CHEMICAL CO. LTD., No. 3, Jianji St. Qianzhen District, Kaohsiung City 806, Taiwan TEL : 886-7-821-9521 FAX : 886-7-811-2150
TRADE NAME	TAITACELL EPS 321N.
CHEMICAL NAME	Expandable Polystyrene.
SYNONYMS	EPS. (Expandable Polystyrene)
FORMULA	(C ₈ H ₈) _n

2. HAZARD IDENTIFICATION :

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

3. COMPOSITION/INFORMATION ON INGREDIENTS :

Component	CAS No.	Percentage (%)
Polystyrene	9003 - 53 - 6	91.0 min.
Pentane	109-66-0	7.0 max.
Flame retadant agent (Non-hexabromocyclodecane)	---	2.0 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.

9. PHYSICAL AND CHEMICAL PROPERTIES :

Appearance	White beads.
Odor	Pentane.



Melting Point	90 °C
Specific Gravity	1.04
Solubility in water	Insoluble.

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 :

Shipping name : Expandable Polystyrene
UN# 2211 Hazard Class : 9

15. REGULATORY INFORMATION :

Not available.

Taita Chemical Company, Limited



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16. OTHER INFORMATION :

None.
