



Material Safety Data Sheet

**XPS Foam Board**

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**1. Product and company information**

Product name: Polyboard Enviro

Manufacturer: Mega Technical Resources Limited

Rm M30, Blk.G, 12/F, Kwai Shing Ind. Bldg.,

Phase II, 42-46 Tai Lin Pai Road, Kwai Chung

Tel: 852.2191.6268

Tel for health and technical consulting: 852.2191.6268

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**2. Element**

Extruded polystyrene foam containing a halogenated flame retardant system

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**3. Toxicity**

Carcinogens: None/No data available

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**4. Fire protection measures**

Flash point and

Testing method: > (324°C) 615°F, ASTM D1929

Combustion limit: N/A

Spontaneous combustion

Temperature: N/A

Fire extinguishing media: water, CO<sub>2</sub> or dry powder

Unusual fire and

Explosion hazards: Thick black smoke will be generating when burning. Grinding, cutting or machining work will produce powder particles, which will form combustible explosive dust clouds under certain conditions.

Fire extinguishing: In the case of continuous combustion, use self-contained breathing apparatus (SCBA). Fire brigade should use all protection tank switching devices.

Dangerous combustion

Products: The major combustion products are carbon monoxide, carbon dioxide, acrylic acid, sulfur dioxide and hydrogen sulfide, as well as a small amount of uncertain hydrocarbons.

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## 5. Hazard identification

Appearance and smell: Pink closed cell structure foam board, unscented

Emergency overview: In order to prevent burning and to avoid the smoke, stay away from open flame and high temperature. Grinding, cutting or machining work can produce powder particles, which will form combustible explosive dust clouds under certain conditions.

Main route of exposure: Inhalation; skin and eye contact.

Potential impact on health: (Acute) - Powder inhalation may cause short-term pain and cough; eye contact may lead to a slight minor inflammation, rubefaction, lacrimation and blurred vision. See Part 8 for exposure-related information.

(Chronic) - This product will not cause long-term effects on health. See Part 11 for other toxicity data.

Medical symptoms aggravated by

Long-term exposure: Chronic respiratory and eye-related symptoms will become worse

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## 6. Accidental Release Measures

Steps to be taken if Material is Released or Spilled: Recover spilled material if possible.

Personal Precautions: There are no special required instructions.

Environmental Precautions: There are no special required instructions

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## 7. First-aid measures

Eye Contact: Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then

continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist

Skin Contact: Wash skin with plenty of water.

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## 8. Exposure control and personal protection

Element	OSHA PEL (8 hrs TWA)	ACGIH TLV (8 hrs TWA)
Polystyrene	5 mg/m <sub>3</sub> (respirable powder)	10 mg/m <sub>3</sub> (allowable inhalation)
	15 mg/m <sub>3</sub> (total amount of powder)	3 mg/m <sub>3</sub> (respirable)

Ventilation: To provide adequate conventional and / or local exhaust to maintain under PELs or TLVs. Grinding, cutting or machining work can produce powder particles, which will form combustible explosive dust clouds under certain conditions.

### Respiratory

Protection: In the case of high concentration dust, please correctly wear NIOS/MSHA-approved maintenance-free dust respirator, such as 3M's 8210 (or 8710) or 9900-type (high-humidity environment), or use other equivalent respirators. Use such respirators in accordance with the company's respiratory protection requirements, local laws and regulations, and Article 29 CFR 1910.134 of OSHA.

Skin protection: None

Eye protection: Wear safety glasses during processing.

Work/sanitary requirements: Subject to good industrial hygiene and safety regulations.

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## 9. Physical and chemical properties

### Steam pressure

(mmhg @20°C):	N/A
Steam density (air=1):	N/A
Proportion (water=1):	0.021-0.064
Boiling point:	Decompose at over 600 & 176°F (316°C)
Color:	Pink
Odor:	Odorless
Water-solubility:	non-water-soluble
Viscosity:	No data available

pH value: No data available

State: Solid

Appearance: Pink foam

Freezing point: Softening at 220 & 176°F (104°C)

Smell: None

Evaporation rate (n-butyl acetate =1): No data available

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## 10. Ecological Information

### CHEMICAL FATE

Movement & Partitioning: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float. Based largely or completely on information for flame retardant. There is no evidence of any significant leaching, therefore it is unlikely to contaminate ground water.

Persistence and Degradability: Surface photo degradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

ECOTOXICITY: Not expected to be acutely toxic to aquatic organisms.

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## 11. Stability and Reactivity

Stability/Instability: Thermally stable at typical use temperatures.

Conditions to Avoid: Avoid temperatures above 300°C (572°F) Exposure to elevated temperatures can cause product to decompose. Avoid direct sunlight.

Incompatible Materials: Avoid contact with: Oxidizers. Aldehydes. Amines. Esters. Liquid fuels. Organic solvents.

Hazardous Polymerization: Will not occur.

Thermal Decomposition: Does not normally decompose. Evolution of small amounts of hydrogen halides occur when heated over 250°C (482°F). Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aromatic compounds. Aldehydes. Ethylbenzene. Hydrogen bromide. Polymer fragments. Under high heat, non-flaming conditions, small amounts of aromatic hydrocarbons such as styrene and ethylbenzene are generated.

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## 12. Discarded Notes

RCRA dangerous level: no harm

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## 13. Handling and Storage

## Handling

General Handling:	Fabrication methods which involve cutting into this product may release the blowing agent(s) remaining in the cells. Provide adequate ventilation to assure localized concentrations in release areas are maintained below the lower flammable limit. Mechanical cutting, grinding or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. This product is combustible and may constitute a fire hazard if improperly used or installed. When installed, this product should be adequately protected as directed by national building regulations or instructions in the specific application brochure.
Storage:	During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources. This material contains a halogenated flame retardant additive system to inhibit accidental ignition from small fire sources.
Ground leakage:	The materials should be collected into suitable containers and disposed as non-hazardous waste.
Water leakage:	The materials will float on the water surface, and disperse as a result of the wind or water flow. Such materials may be gathered with boom and collected with absorption tube or absorbing material, and also may be removed with vacuum tube.
Air leakage:	The materials will be deposited from the air, and then be collected or vacuumized and disposed as non-hazardous waste

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## 14. Transport Information

DOT transportation:	No provision
Dangerous level:	None
Intermediate product:	None
ID number:	None
Packaging group:	None
ID required:	None
Special security measures:	None
Special packaging:	None
EPA hazardous substances:	None
Pollutants in sea water:	None
Hazardous materials transportation guides:	None

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## 15. Management Information

TSCA status: each element is listed in the schedule

SARA item 3: Hazard classification:

Acute disease response: None

Chronic disease response: None

Fire danger: None

Pressure hazard: None

Reactivity hazard: None

Elements to be reported:

Sec. 302/304: None

Sec. 313: CO2

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## 16. Additional Information

HMIS and NFPA hazard levels:

Item	HMIS	NFPA
Acute disease response	0	0
Flammability	1	1
Reactivity	0	0

NFPA abnormal risk: None

HMIS personal protection: depending on the use conditions

Polyboard Enviro is manufactured using zero ODP, CO2 as a blowing agent

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