

Material Safety Data Sheet

Extruded Polystyrene Foam Board

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Extruded Polystyrene Foam Board
Manufacturer	OCV Reinforcements Manufacturing Pvt. Ltd., Thimmapur – 509325, Hyderabad – Bengaluru Highway, Mahaboobnagar Dist., A.P., India
Telephone	+91-8548-256072 (Working days, 8:30 am ~ 5:00 pm)
Health & Technical Consultation Call	+91-8548-256072 (Working days, 8:30 am ~ 5:00 pm)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>% by Weight</u>
Polystyrene	Styrene Homopolymer	80-90
HCFC - Proprietary mix	Chlorodifluoroethane	10-15
HBCD	Hexabromocyclododecane	0.5-2.5

Non – Hazardous statement	The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.
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3. HAZARDS IDENTIFICATION

Form and Odor	Pink, Platinum, White, or Yellow , close-cell-structural foam board without odor.
Emergency Overview	Dense Black Smoke will be produced during a fire. Grinding, sawing or fabrication activities can produce dust particles which under certain conditions may ignite or form explosive dust atmospheres. To prevent ignition and smoke, keep away from open flame and high temperature. Grinding, cutting or processing will generate powder and grains, which may transform to flammable and explosive dust under certain conditions.
Route of Exposure	Eye contact & Inhalation
Potential Health Effect	(Acute)—Powder inhalation might cause quick pain and cough; eye exposure might cause slight inflammation, redness, crying and blurred vision. Please refer to Section 8 for exposure information. (Chronic)—This product will not cause long-term effects on health. Please refer to Section 11 for other toxicological information.

4. FIRST AID MEASURES

Inhalation	Move to fresh air. In case of breathing difficulty or continuous pain, supply oxygen. In case of respiration ceased, start artificial respiration.
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	Ask for medical treatment
Eye Exposure	Rinse the eyes with tap water for at least 15-20 minutes. Please go to the doctor if the inflammation continues.
Skin Exposure	Rinse with neutral soap and water
Swallow Ingestion	Rinse the mouth with water thoroughly. Please go to the doctor

5. FIRE FIGHTING MEASURES

Flammable properties	Non Flammable
Flash Point and Test Method	> (324°C) 615°F, ASTM D1929
Combustion Limit	Not applicable
Auto ignition Temperature	Not applicable
Lower Flammable /Explosive Limit	Not applicable
Upper Flammable / Explosive Limit	Not applicable
Extinguishing Media	Dry chemical powder Foam Carbon dioxide (CO ₂) Water fog
Unsuitable Media	None
Protective Equipment	Wear self contained breathing apparatus (SCBA) and full fire fighting protective gear.
Unusual Fire Hazards	Grinding, cutting or fabrication activities can produce dust particles which under certain conditions may ignite or form explosive dust atmospheres.
Hazardous Combustion Products	Carbon monoxide Carbon dioxide Styrene. Small quantities of hydrogen fluoride, hydrogen chloride, fluorine and chlorine could be released. Other undetermined compounds could be released in small quantities. HC FC -142b thermally decomposes at > 430°C (850°F).
Decomposition products include	Hydrogen fluoride , hydrogen chloride , fluorine , chlorine and bromine
Universal Fire And Explosion Hazards	Not available.
Extinguishing Media	Water, CO ₂ or dry powder

6. ACCIDENTAL RELEASE MEASURES

Personnel Precautions	Avoid contact with skin and eyes
Methods of containment	This material will settle out of the air Prevent from spreading by covering, diking or other means
Methods for cleanup	Use an industrial vacuum cleaner with a high efficiency filter to clean up dust. Avoid dry sweeping.

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	Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.
Other Precautions	Does not apply
Ground Release	Collect the materials with proper containers and conduct non-hazardous waste disposal
Release in Water	Materials might float above water and waft due to the wind or water flow. Make the materials come together with water barriers, and collect them with absorption tubes or absorbing matters, or remove them with vacuum tubes.
Release in Air	Materials will settle down from the air. Then they can be collected or taken off in vacuum for non-hazardous waste disposal.

7. HANDLING AND STORAGE

Handling	Avoid dust formation. Do not breathe dust. Wear personal protective equipment
Storage	Keep product in its packaging until use to minimize potential dust generation. Product should be kept dry and undercover

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Composition</u>	<u>OSHA PEL (8 hours TWA)</u>	<u>ACGIH TLV (8 hours TWA)</u>
Polystyrene	5 mg/m ₃ (respirable powder) 15 mg/m ₃ (total amount of powder)	10 mg/m ³ (total dust) 3 mg/m ³ (respirable)
HCFC-142b	No data	No data
HCFC 22	No data	1000PPM, 8Hr. TWA
HBCD	No data	No data

Ventilation	Provide sufficient normal and/or local ventilation, and keep it below PELs or TLVs. Grinding, cutting or processing will generate powder and grains, which may transform to flammable and explosive dust under certain conditions.
Inhalation protection	In case of higher dust concentration, personnel should wear NIOSH/MSHA approved maintenance-free dustproof breathing apparatuses, (such as 3M 8210 or 8710 or 9900, in highly humid environments, or equivalent breathing apparatuses). Observe inhalation protection regulations of the company, local regulations as well as OSHA 29 CFR 1910.134.
Skin Protection	Gloves and long sleeved shirts
Eye Protection	Wear safety goggles or glasses during processing

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Work/Hygienic Requirements	Observe approved industrial hygienic and safety regulations
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Physical state appearance	Foam
Colour	Pink, Platinum, White, or Yellow.
Odor	No detectable Odor
Boiling Point	Decomposes above 316°C (600°F)
Melting point	Softens at 104°C(220°F)
Specific Gravity (ref. water=1)	0.021-0.064
Water Solubility	Insoluble in water
Vapor Pressure (mmhg @20°C)	N/A
Evaporation Rate (ref. :Butyl Acetate =1)	No data
pH	No data
Flash Point	>324°C(615°F) method ASTM D1929
Auto Ignition temperature	Not applicable

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions
Hazardous Polymerization	Does not occur
Conditions to avoid	Dust dispersion in air
Incompatible Materials	Hydrocarbons, esters and amines
Hazardous Decomposition Products	Only on fire. Please refer to Section 5—Hazardous Combustion Products

11. TOXICOLOGICAL INFORMATION

Applies to Product:

Acute : Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, none and throat irritation, and sneezing. High exposures may cause difficulty breathing, congestion, and chest tightness.

12. ECOLOGICAL INFORMATION

Ecotoxicity	This product is not toxic to animals, plants or fishes
Environmental Fate	No data available for this product

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Bio accumulation	Not available
Biodegradation	Not available
Mobility in environmental Media	Not available

13. DISPOSAL CONSIDERATIONS

Applies to Product:

Waste Disposal : Dispose of in accordance with Local, State, Federal and Provincial regulations

Contaminated Packaging : Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Shipping Name	No requirements
Hazard Classification	None
Intermediates	None
Identification No.	None
Packing Group	None
Required Labels	None
Special Protective Measures	None
Packing Exceptions	None
EPA Hazardous Materials	None
Seawater Pollutants	None
Hazardous Materials	None
Shipping Instructions	None

15. REGULATORY INFORMATION

Applies to Product:

Regulatory Status : This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

16. ADDITIONAL INFORMATION

HMIS Health Hazard: 0

HMIS Fire Hazard: 1

HMIS Reactivity: 0

HMIS Personal Protection: X

MSDS creation Date: Feb.07.2013