

Safety Data Sheet (SDS)



Complying with GHS Revision 5
Expanded Polystyrene (EPS)
Issuing Date: November 22, 2024

Section 1. Identification of the substance/mixture and of the company/undertaking

Product names: Styropak, Trueboard®, Foundation Plus®, Reward ICF, Truefoil®, Truefold®, Insul-wall®, Trueven®, Trueroof®, Truetaper®, Truefill®, True Wall®, Truefloat®, Truefoam®

Other Identification: Expanded Polystyrene (EPS)

Formula: Substance, (C₈H₈)_n with or without polyester or polypropylene film facers, with or without flame-retardant additive and optionally with graphite (GPS)

Identified Uses: Rigid insulation for the building envelope, insulated packaging, flotation billets, light-weight or geotechnical fill

Company: Truefoam
11 Mosher Drive, Dartmouth
NS B3B 1L8

Emergency phone: CA 1-800-565-1291

Section 2. Hazards Identification

GHS Classification: None

Symbol: None

Signal Word: Not Hazardous

Precautionary Statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition source. No Smoking
P261 Avoid breathing dust/fumes (from cutting).
P280, P284 Wear eye and respiratory protection (when sawing/sanding).

Other Hazards: Low toxicity under normal conditions of handling and use.
Freshly expanded foam may off-gas residual blowing agent (pentane) which may accumulate in restricted or confined spaces in concentrations above the Lower Explosive Limit. Dust particles created by sanding or sawing may under certain conditions create an atmosphere with a dust explosion hazard.

Section 3. Composition / Information on Ingredients

Product Name	Chemical Name	CAS Number	Content (w/w)%
Expanded Polystyrene (EPS)	Ethenylbenzene homopolymer C ₈ H ₈	9003-53-6	80-100%
Pentane*	n-pentane	109-66-0	<1.5%
Isopentane	Isopentane	78-78-4	<0.5%
Graphite**	Carbon C	7782-42-5	1-5%
Polymeric flame retardant***	Benzene, ethenyl-polymer with 1,3-butadiene, brominated	1195978-93-8	0-1%

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Metalized Polymer Facers****	Polypropylene Polyethylene Ethylene methyl acrylate copolymer Aluminum powder	9003-07-0 9002-88-4 25103-74-6 7429-90-5	0-1%
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*n-Pentane and isopentane are residual blowing agents and not intended to be part of the product. Residual pentane rapidly decreases with age. However, residual blowing agent may gradually off-gas from EPS foam during storage or use, with low levels of pentane remaining in product a number of months after manufacture.

**Graphite is only contained in GPS version products

***Polymeric-FR is only contained in construction product lines and is not present in any Styropak food safe packaging.

****Metalized Facers are only present in the Truefoil® and Truefold® products

Section 4. First Aid Measures

Inhalation	Skin contact Eye contact Ingestion Remove to fresh air, if excessive combustion fumes, dust particles, or pentane vapours are inhaled. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.
Skin Contact	Contact is not expected to present a skin hazard. Wash skin with plenty of soap and water, if skin irritation develops. Seek medical attention, if Irritation persists. If molten material gets on skin, treat affected area immediately with large amounts of cold water for at least 15 minutes and get immediate medical attention. Do NOT attempt to remove any molten or solidified material from the skin, or to remove contaminated clothing.
Eye contact	Immediately rinse eyes with plenty of clean water, if dust or particles enter eyes. Remove Contact lenses, if safe to do so. If molten material contacts eyes, hold the eyelids apart and flush the eye with a large amount of cold water for at least 15 minutes. Get immediate medical attention.
Ingestion	If swallowed, do NOT induce vomiting unless directed to by physician; flush mouth with water and get immediate medical Attention.

Section 5. Firefighting Measures

Extinguishing media:	Water Fog, Foam, Dry Chemical, ABC Type Extinguisher
Specific Firefighting Protective Equipment:	Fire fighters should wear self-contained breathing apparatus (SCBA) and personal protective clothing (turn out gear) in a sustained fire.
Specific Hazards Arising from the Material:	Burning may produce dense black smoke. Smoke consists of carbon monoxide, carbon dioxide, hydrogen halide, nuisance particulate, and carbon (soot). Styrene, pentane and other undetermined hydrocarbon fractions could be released in trace quantities. Dust generated by fabrication (i.e., sanding, sawing, etc.) will increase fire hazard and should be handled accordingly.
Hazardous Combustion Products:	CO, HBr, CO ₂
Special Fire Hazards:	Pentane vapours may be emitted from freshly produced foam. Vapours can be ignited by heat, sparks, flames or other sources of ignition.

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NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
EPS Foam	1	2	0	n/a

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Good housekeeping practices should be observed. Material can be swept or picked up and placed in a suitable container for disposal.

Environmental Precautions: Small pieces, particles and dust can be blown by the wind and enter storm water systems and waterways. Although the product is not hazardous excess product can result in impairment of storm water systems and waterways. Prevent loss of material to the local environment through good housekeeping practices.

Methods and Materials for Containment and Cleaning Up: Good housekeeping practices should be observed. Material can be swept or picked up and placed in a suitable container for disposal.

Section 7: Handling and Storage

Precautions for safe handling:

Avoid all sources of ignition, do not smoke in areas where product is being stored or used. Product will dissolve in hydrocarbons, esters, aldehydes and amines, avoid contact with these materials. If grinding, sawing, or rasping, use dust extraction and respiratory and eye protection equipment. Use only in adequately ventilated areas.

Building insulation precautionary labeling:

CAUTION: THIS PRODUCT IS COMBUSTIBLE. A PROTECTIVE BARRIER OR THERMAL BARRIER IS REQUIRED AS SPECIFIED IN THE APPROPRIATE BUILDING CODE.

Conditions for safe storage:

Store product away from open flame and other ignition sources. Store material in a dry place out of direct sunlight when possible.

Section 8: Exposure Controls / Personal Protection

Exposure Guidelines

Polystyrene

OSHA PEL: Particulates (not otherwise classified) 15 mg/m³, 8 Hr. TWA, total dust 5 mg/m³, 8 Hr. TWA, respirable dust.

ACGIH TLV: None Established

Pentanes

OSHA PEL 1,000 ppm

CGIH TLV 600 ppm

Personal Protection

Ventilation: Use ventilation adequate to maintain safe levels if overheating or dust occurs during processing. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Eye/Face Protection: If there is a potential for exposure to particles which could cause eye discomfort or for fabrication operations, safety glasses with side shields are recommended.

Skin Protection: No precautions other than clean body-covering clothing should be needed

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Hand Protection: Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

Respiratory Protection: Respiratory protection is not normally required. When respiratory protection is required for certain operations, including but not limited to saw, router or hot-wire cutting, use an approved air-purifying respirator. In dusty or misty atmospheres, use an approved particulate respirator.

Section 9: Physical and Chemical Properties

Appearance:	Rigid cellular foam blocks, boards and shapes
Odour:	Very slight hydrocarbon odour
Odour threshold:	N/A
pH:	N/A
Melting point:	Softening begins between 70 to 80 °C (160 to 176 °F)
Boiling point:	N/A (decomposes)
Flash point:	> 345°C / 653 °F (ASTM D1929)
Evaporation rate:	N/A
Flammability:	Oxygen Index >24% (ASTM D2863)
Upper/Lower Flammability or Explosive Limit:	Upper Explosive Limit: 8.3 (% by Volume) (pentane) Lower Explosive Limit: 1.4 (% by Volume) (pentane)
Vapour pressure:	N/A
Vapour density: (air = 1)	N/A
Relative density: (water = 1)	0.01 to 0.05
Solubility:	Insoluble in water. Soluble in hydrocarbons, esters, aldehydes & amines.
Partition coefficient,n-Octanol/Water	N/A
Auto-ignition temperature:	440 C / 824 °F
Decomposition temperature:	> 300 C / 572 °F
Viscosity:	N/A
Other information:	N/A
Physical state:	Solid

Section 10: Stability and Reactivity

Reactivity	Not Reactive
Chemical Stability:	Normally Stable
Possibility of Hazardous Reactions:	Non Expected
Conditions to Avoid:	Open flames, sparks, heat and other ignition sources.
Incompatible Materials	Product will dissolve in hydrocarbons, esters, aldehydes and amines.
Hazardous Decomposition Products:	Combustion products include carbon monoxide, carbon dioxide, styrene, hydrogen halide, nuisance particulates, carbon (soot) and pentane. Other undetermined hydrocarbon fractions could be released in trace quantities

Section 11: Toxicological Information

Acute toxicity

Conclusion/Summary: There are no data for this formulation.

Toxicologically Synergistic Products: No information available

Irritation/Corrosion

Skin: May cause skin irritation.

Eyes: May cause severe damage to the eyes.

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Respiratory:	No known significant effects or critical hazards.
Ingestion:	No toxic effects are known to be associated with inhalation of dust from this material. Mechanical irritation may result from inhalation of dust from this material.

Sensitization

Skin:	No irritation is likely to develop following contact with human skin.
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Respiratory:	No known significant effects or critical hazards.
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Mutagenicity:	No known significant effects or critical hazards.
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Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
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NTP:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
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OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
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<u>Reproductive toxicity:</u>	No known significant effects or critical hazards.
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<u>Teratogenicity:</u>	No known significant effects or critical hazards.
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<u>Specific target organ toxicity (single exposure)</u>	N/A
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<u>Specific target organ toxicity (repeated exposure)</u>	N/A
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<u>Aspiration hazard</u>	N/A
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Information on the likely routes of exposure:	Not available.
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Section 12. Ecological information

Toxicity:	No known significant effects or critical hazards
Persistence and degradability:	The organic component of the product is biodegradable.
Bioaccumulative potential:	Accumulation in organisms is not to be expected.
Mobility in soil:	Not available
Soil/water partition coefficient (KOC):	Not available
Other adverse effects:	No known significant effects or critical hazards

Section 13. Disposal considerations

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Incinerate material in accordance with Federal, State/Provincial and Local requirements. Do not incinerate in closed containers. Discarded product is not a RCRA hazardous waste. EPS products can be recycled whenever possible and is classified as a #6 recyclable material.

Section 14. Transport information

DOT TRANSPORT:	Not Regulated
ADR = International Carriage of Dangerous Goods by Road:	Not Regulated
SEA TRANSPORT: [IMDG]	Not Regulated
AIR TRANSPORT: [IATA/ICAO]	Not Regulated
UN NUMBER:	Not Classified

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Special precautions for transport: Keep products away from heat and any sources of ignition.

Section 15. Regulatory information

Canada

WHMIS-2015: This SDS is in compliance with WHMIS 2015 (HPR / new HPA).

USA

Toxic Substance Control Act: The product is in compliance with rules, regulations and orders of TSCA. All components are either listed on a federal chemical inventory or are considered exempt.

SARA 311/312 Hazards: This material does not contain any components
SARA 302 This material does not contain any components with a section 302 EHS TPQ.

SARA 313: Not listed

California Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive Harm.

Clean Water Act: This material does not contain any components
CERCLA This material does not contain any components

Section 16. Other Information

Original Issue: January 2014
Date or revision: November 22, 2024
Revisions Number: 2

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