



# SAFETY DATA SHEET

This SDS complies with GHS Revision 5, OSHA 29CFR 1910.1200

## Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME  
 Fox Blocks – Airlite Plastics  
 6110 Abbott Drive  
 Omaha, NE 68110

EMERGENCY TELEPHONE

Information: 877-369-2562

Safety Data Sheet Competent Person:

info@foxblocks.com

DATE PREPARED: June 3, 2016

**REVISION DATE: June 9, 2016**

PRODUCT NAME: **Fox Blocks**

FORMULA: Substance

PRODUCT USE: For use as a stay-in-place formwork for a cast-in-place concrete wall used in residential and commercial exterior and interior walls.

## Section 2: Hazards Identification

**GHS Hazard Class** Not Applicable. This product does not meet the physical, health, or environmental classification criteria of GHS (Globally Harmonized System).

Hazards not otherwise classified (HNOC) – None

**HAZARD CLASSIFICATION:** Not classified as hazardous based on IATA, IMDG, and DOT.

**FIRE AND EXPLOSION:** Not considered flammable or combustible, but this product will burn if involved in a fire.

**POTENTIAL HEALTH EFFECTS:** <0 % of mixture consists of ingredients of unknown acute toxicity

**APPEARANCE:** White EPS foam and black plastic ties

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Fox Blocks	1	2	0	----

## Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER	CANADA DSL
<b>ESP Resin</b>				
Expanded polystyrene (EPS)	> 95	9003-53-6	500-008-9	Y
Pentanes	< 1	109-66-0	203-692-4	Y
Flame retardant	< 1	TS	TS	Y
Coatings	< 1	--	--	N
<b>PP Resin</b>				
Recycled polypropylene	> 95	9010-79-1	--	Y
Stabilizers and additives	< 5	Mixture	--	N

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.



## Section 4: First Aid Measures

### Description of First Aid Measures

Inhalation	Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.
Skin Contact	Wash skin with plenty of soap and water. If hot material gets on skin, immediately flush affected area with large amounts of cool water. Do not attempt to remove the material from the skin, or to remove contaminated clothing. Get immediate medical attention.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and safe to do so. If hot material comes in contact with eyes hold the eyelids apart and flush the eye with a large amount of cool water for at least 15 minutes. Get immediate medical attention.
Ingestion	If swallowed do NOT induce vomiting, rinse mouth with water. Never give anything to an unconscious person. Get immediate medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation	Dust and/or vapors may cause respiratory tract irritation. In confined or poorly ventilated areas, vapors can readily accumulate and can cause unconsciousness and death.
Symptoms/Injuries after Skin Contact	May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin.
Symptoms/Injuries after Eye Contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/Injuries after Ingestion	May be harmful if swallowed. May cause stomach distress, nausea, or vomiting

### Indication of any immediate medical attention and special treatment needed

**INHALATION:** This material (or a component) sensitizes the myocardium to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.

**EYES:** Hot material may cause burns to the eyes. Early ophthalmologic evaluation is recommended.

**SKIN:** Hot material may cause skin burns. Immerse skin covered with hot material in cool water to limit tissue damage and prevent spread of liquid material.

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

## Section 5: Fire-fighting Measures

### Suitable extinguishing media

Use foam, dry chemical, or carbon dioxide. Do not use solid water stream as it may scatter and spread fire.

### Special hazards arising from the substance or mixture

Combustion may produce hazardous decomposition products and other decomposition products in the case of incomplete combustion. These may include simple hydrocarbons to toxic and irritating gases such as carbon, carbon monoxide, carbon dioxide, styrene, acids, ketones, and aldehydes. Material is a solid containing an extremely flammable liquid and vapor. Material will burn on contact with flame or exposure to high temperature. Hazardous melting and dripping may occur at elevated temperatures. Explosion hazard if exposed to extreme heat. This material releases a flammable blowing agent. Extremely flammable vapors form flammable or explosive mixtures with air at room temperature. Vapor or gas may spread to distant ignition sources and flash back. Eliminate ignition sources (including static spark) and prevent vapor accumulation. This material, as produced and not in its finely divided form as dust, is not explosive as defined by established regulatory criteria. When in its finely divided form as dust, this material presents an explosion hazard when dispersed in a confined area and ignited in air. Risk of dust-air explosion is increased if flammable vapors are present. This material



may accumulate static charge which can cause an electrical spark (ignition source) in some cases. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.

Use water spray to cool unopened containers.

#### **Protective actions fire-fighters**

#### **Further information**

## **Section 6: Accidental Release Measures**

#### **Personal precautions, protective equipment, and emergency procedures**

Wear proper personal protective equipment. Avoid breathing dust, fine particulate, vapors and/or mist.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

#### **Methods and materials for containment and cleaning up**

**For Small Spill:** In the event of a small spill, clean up area with non-sparking tools and place into an appropriate container for disposal. Avoid the generation of dust clouds and contamination of waterways.

**For Large Spill:** In the event of a large spill, keep unnecessary people away. Isolate area for at least 25 meters (75 feet) in all directions to preserve public safety. If downwind consider initial evacuation for at least 100 meters (300 feet). Eliminate all sources of ignition (no smoking, flares, sparks or flames in immediate area). Prevent or minimize formation of a dust cloud or layer during cleanup. This material releases a flammable blowing agent. In its finely divided form, this material may present an explosion hazard when dispersed in a confined area and ignited in air.

Water spill: use appropriate containment to avoid run off or release to sewer or other waterways.

Land spill: use appropriate containment to avoid run off or release to ground.

Place into an appropriate container for disposal.

**Reference to other Sections** For personal protection reference section 8. For disposal reference section 13.

## **Section 7: Handling and Storage**

#### **Precautions for safe handling**

Take precautionary measures against static discharge.

Keep away from heat, sparks, flame, direct sunlight, and other possible sources of ignition.

Use only with adequate ventilation.

Do not inhale dust or vapors.

Avoid spilling and releasing dust and vapor.

Wear proper protective equipment when handling this material.

Avoid contact with skin, eyes, or clothing.

Wash hands after handling this material.

Appropriate container should be used for disposal.

For precautions see section 2.

#### **Conditions for safe storage, including any incompatibilities**

Store upright in a cool, dry place.

Keep container closed when not in use.

Prevent build-up of electro-static charges (e.g. by grounding).

Keep away from heat, sparks, flame, direct sunlight, and other possible sources of ignition.

Do not store with acid, metallic oxide, amines, and combustible materials.

Utilize chemical segregation.

Follow all applicable local regulations for handling and storage.

#### **Specific uses**

This product is intended for use as a stay-in-place formwork for a cast-in-place concrete wall used in residential and commercial exterior and interior walls.



## Section 8: Exposure Controls/Personal Protection

### Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
<b>ESP Resin</b>			
Expanded polystyrene (EPS)	TWA 3 mg/m <sup>3</sup> ** 10 mg/m <sup>3</sup> **	TWA 5 mg/m <sup>3</sup> * 15 mg/m <sup>3</sup> **	TWA 3 mg/m <sup>3</sup> ** 10 mg/m <sup>3</sup> **
Pentanes	TWA 120 ppm (350 mg/m <sup>3</sup> )	TWA 1000 ppm (2950 mg/m <sup>3</sup> )	TWA 120 ppm (350 mg/m <sup>3</sup> ) C 610 ppm (1800 mg/m <sup>3</sup> ) [15-minute]
Coatings	--	--	--
<b>PP Resin</b>			
Recycled polypropylene	--	--	--
Stabilizers and additives	--	--	--

\*PNOR (Particulates Not Otherwise Regulated): OSHA 5 mg/m<sup>3</sup> Respirable fraction (R), 15 mg/m<sup>3</sup> Total Particulates

\*\*PNOS (Particulates Not Otherwise Specified): ACGIH 3 mg/m<sup>3</sup> Respirable fraction (R), 10 mg/m<sup>3</sup> Total Particulates, total dust less than 1% quartz.

### Exposure controls

VENTILATION:

Always provide good general, mechanical room ventilation where this chemical/material is used.

SPECIAL VENTILATION CONTROLS:

Use explosion-proof equipment if high dust/air concentrations are possible. Use only appropriately classified electrical equipment and powered industrial trucks. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

RESPIRATORY PROTECTION:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

PROTECTIVE GLOVES:

Neoprene, butyl, or nitrile rubber gloves are recommended.

EYE PROTECTION:

Recommend eye protection using safety glasses or goggles.

SKIN PROTECTION:

Suitable protective clothing to prevent skin contact

WORK/HYGIENE PRACTICES:

Avoid breathing dust and vapor. Avoid contact with eyes. Wash hands after handling.

OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

## Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA - EPS	PRODUCT CRITERIA - PP
APPEARANCE - COLOR:	White or grey	Charcoal to black
PHYSICAL STATE:	Solid	Solid
ODOR:	Very slight hydrocarbon odor	Mild to odorless
ODOR THRESHOLD	Data not available	Data not available
PH	Data not available	Data not available
MELTING POINT/FREEZING POINT:	70°C (160°F)	90°C (200°F)
INITIAL BOILING POINT AND BOILING RANGE:	Data not available	Data not available
FLASH POINT:	400°C (752°F)	Data not available
EVAPORATION RATE:	Data not available	Data not available
FLAMMABILITY (Solid, gas)	Data not available	Data not available



UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Data not available	Data not available
VAPOR PRESSURE	Data not available	Data not available
VAPOR DENSITY (AIR = 1)	Data not available	Data not available
SPECIFIC GRAVITY (H2O = 1)	0.60-2.0 (estimated)	0.85-1.0 (estimated)
DENSITY (@25 °C):	1.35-1.65 lbs./cubic feet	1.02 g/ml
SOLUBILITY (IES)	Insoluble	Insoluble
OXIDIZING PROPERTIES	Data not available	Data not available
PARTITION COEFFICIENT: n-octanol/water	Data not available	Data not available
AUTO IGNITION TEMPERATURE	380°C (716°F)	Data not available
DECOMPOSITION TEMPERATURE	Data not available	Data not available
VISCOSITY	Data not available	Data not available
EXPLOSIVE PROPERTIES	Data not available	Data not available

## Section 10: Stability and Reactivity

Reactivity:	Not reactive
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Will not occur under normal temperatures and pressures.
Conditions to Avoid:	Unventilated areas, heat, open flame, sparks and ungrounded electrical equipment.
Incompatibility (Materials to Avoid):	Solvents including hydrocarbons, esters, aldehydes, and amines. Also avoid strong oxidizers.
Hazardous Decomposition Products:	Decomposition of the product can include trace amounts of hydrocarbons. Primary combustion products include carbon monoxide, carbon dioxide, styrene, hydrogen halide, nuisance particulate, carbon (soot) and pentanes.

## Section 11: Toxicological Information

**There is no toxicological information available for the product.**

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 (Oral/Rat):	2,000 mg/kg	No mortality	Pentane
	LC50 (Inhalation/Rat):	205.45 mg/L, 4hr.		Pentane
Skin Corrosion/Irritation	There was no stimulativeness to the human skin by the 24-hour patch test in the humans and there was no stimulativeness in practice by the skin irritation study in a rabbit (the erythema and dropsy with the average values of Draize score of 0.67).			Pentane
Serious Eye Damage / Eye Irritation	EYE-RABBIT:	Transient conjunctivitis was seen, however, it recovered within 72 hours.	Category 2B	Pentane
Respiratory or Skin Sensitization	No sensitizing properties seen in the Maximization Test using the guinea pigs.			Pentane
Germ Cell Mutagenicity	Negative micronucleus tests using rat myeloid cells of in vivo.			Pentane
Carcinogenicity	NTP	Not listed		
	IARC	Group 3		Polystyrene
	OSHA	Not listed		
Reproductive Toxicity	There is a description that no influence on dam and fetus was observed in the teratogenicity test by oral administration using rats, even at the highest dose of 1000mg/kg/day.			Pentane
STOT -- Single Exposure	There were anesthetic actions and respiratory irritant through inhalation exposure to laboratory animals.		Category 3	Pentane
STOT -- Repeated Exposure		Data not available		
Aspiration Hazard		Data not available		

STOT = Specific Target Organ Toxicity

## Section 12: Ecological Information

		Chemical Constituent
Toxicity:	48-hour EC50 =2.7mg/L, Crustacea (Daphnia magna)	Pentane
Persistence and degradability:	Data not available	
Bioaccumulative potential	Data not available	
Mobility in soil:	Data not available	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	Data not available	



## Section 13: Disposal Considerations

**Waste from residues/unused products:** Follow the waste disposal requirements of your country, state, or local authorities.

**Contaminated packaging:** Contaminated packaging material should be disposed of as stated above for residues and unused product.

**Rinsate:** Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

## 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

## Section 15: Regulatory Information

**TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:**

This 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.

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:**

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

**CALIFORNIA PROPOSITION 65:**

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: This material may contain low levels of Styrene and Ethyl Benzene with exposure of no significant risk.

**STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:**

Massachusetts's hazardous substance(s):	Pentane
Pennsylvania hazardous substance code(s):	Pentane
New Jersey	Pentane

**CANADA:**

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

**EUROPEAN UNION:**

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

## Section 16: Other Information

Initial issue date:	June 3, 2016
Final revision date:	June 9, 2016
Revision Number:	0
Revision explanation:	Initial version
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200



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