

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

The PRODUCT is a composite of RAW MATERIALS. We will treat this MSDS as a NUMBER-part document covering: (A) PART 1, and (B) PART 2, ETC.

(A) Util-A-Crete Concrete Backer Board

1. Product and Company Identification:

Product Name: Util-A-Crete Concrete Backer Board

Manufacturer: Fin Pan Inc., Hamilton, OH 45015

Emergency Contact: 800-633-6444

2. Composition/Information on Ingredients:

<u>Chemical Name</u>	<u>WT%</u>	<u>TLV (mg/m³)</u>	<u>PEL (mg/m³)</u>	<u>CAS Number</u>
Expanded Clay Aggregate	30-55	(NE)	(NE)	(NE)
Portland Cement	25-35	10	5 (R)/15 (T)	65997-15-1
Crystalline Silica, respirable dust	<0.3	0.1	10 (R)/30 (T)	14808-60-7
Fly Ash	20-30	(NE)	(NE)	(NE)
Potable Water	10-15	(NE)	(NE)	7732-18-5
Fiberglass Mesh	<1	(NE)	(NE)	65997-17-3

(T) – Total (R) – Respirable

(NE) – Not Established

(P) - Proprietary

This document was prepared pursuant to the OSHA hazard communication standard (29 CFR 1910.1200). In addition, other substances not hazardous per this OSHA standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard. This part of the document has been taken from MSDS information supplied to us from THE MANUFACTURER.

3. Physical and Chemical Properties:

Boiling Point Not Applicable
Melting Point..... Not Applicable
Percent Volatile Not Applicable
Vapor Pressure Not Applicable
Vapor Density..... Not Applicable
Evaporation Rate..... Not Applicable
Solubility in water..... Insoluble
Specific Gravity/Density..... Not Applicable
Appearance Hard gray board
Odor Slight cement odor
Physical State..... Stable solid

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

4. Fire and Explosion Hazard Data:

Flash PointNot Applicable
Flammable Limits LFL.....None
Flammable Limits UFLNone
Extinguishing MediaWater spray, dry chemical, or carbon dioxide

Hazardous Combustion Products: None known.

Fire-fighting Instructions: Use appropriate extinguishing media for surrounding fire.

Protective Fire-fighting Equipment: No special equipment is necessary.

5. Reactivity Data:

Stability: Thermally stable at typical use temperatures.

Incompatibility with Other Materials: Avoid contact with strong acids.

Hazardous Decomposition Products: Gases from strong acid degradation.

Hazardous Polymerization: Will not occur.

6. Health Hazard Data:

Eye: Due to alkali in the cement, contact with eyes will cause irritation and possible corrosion damage, burning and corneal edema. Particles will also cause mechanical irritation.

Skin Contact: Abrasion and skin irritation may occur due to alkali in the cement.

Ingestion: If ingested, caustic burns may occur in the mouth, esophagus or stomach. May be corrosive to the digestive tract.

Inhalation: Excessive exposure to dust may result in irritation of nose, throat and lungs.

Systemic (Other Target Organ) Effects: None known.

Cancer Information: Chronic exposure to dust containing silica (Quartz Crystobalite and Tridymite) can cause delayed lung injury (Silicosis) or cancer. Inhalation of Crystalline Silica may contribute to pre-existing pulmonary diseases, such as asthma and lung disorders associated with the smoking of tobacco.

Teratology (Birth Defects): None known.

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

Reproductive Effects: None known.

7. First Aid:

Eyes: Immediately flush eye, including under lids, thoroughly with water for 15 minutes to remove all particles. If irritation persists, consult physician.

Skin: Wash thoroughly with soap and water. If irritation remains, seek medical attention. If cement penetrates the clothing, promptly remove the clothing and wash skin. Wash clothing before wearing again.

Ingestion: Seek medical attention immediately. The use of diluents is controversial and neutralization is contraindicated.

Inhalation: Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside.

8. Handling and Storage:

Handling: Maintain good housekeeping.

Storage: Keep clean, dry and flat.

9. Accidental Release Measures: (See Section NUM for Regulatory Information)

Containment Procedures: Due to the physical nature of this product, spills are not possible.

Evacuation Procedures: None.

Cleanup Procedures: Normal clean up methods.

Special Procedures: None.

10. Exposure Controls/Personal Protection:

Respiratory Protection: If product is cut with a power saw, the saw must be equipped with a dust collector and wear a NIOSH/MSHA-approved respirator if the dust level in the work area is above the TLV or PEL. Provide general mechanical ventilation and local exhaust to meet TLV requirements. Hand score and snap to avoid creating excess dust.

Skin Protection: Wear gloves and work clothing or apron.

Eye Protection: Wear safety glasses or goggles with shields while cutting.

Contact lenses should not be worn when working with Portland cement.

11. Toxicological Information:

Mutagenicity: None known.

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

12. Ecological Information:

Movement & Partitioning: No bioconcentration is expected.

Degradation & Persistence: No appreciable biodegradation or photodegradation is expected.

Ecotoxicity: When handled and disposed of properly, this product does not present an environmental threat.

13. Disposal Considerations:

Disposal: Dispose of waste in accordance with Federal, State and Local regulations.

For unused & uncontaminated product, pickup and reuse clean material.

14. Transportation Information:

Department of Transportation (DOT): This product is not regulated by the D.O.T. when shipped domestically by land.

Canadian TDG Information: This product is not regulated by the T.D.G. when shipped domestically by land.

15. Regulatory Information: (Not meant to be all-inclusive - selected regulations represented)

NOTICE: The information contained herein is based on data considered to be accurate. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with Federal, State/Provincial, and local laws. While the information is believed to be reliable, NO Warranty, expressed or implied, is given in regards to the accuracy of this data or the results to be obtained from the use thereof. Since the use of this information and the conditions and use of this product are controlled by the user, it is the user's obligation to determine the conditions of safe use of the product. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

16. Other Information:

National Fire Protection Association (NFPA) Ratings:

Health..... 1
Flammability 0
Reactivity..... 0

HMIS Ratings:

Health..... 1

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

Flammability 0
Reactivity 0
Personal Protection 0

0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard
3 = Serious Hazard 4 = Severe Hazard

(B) STYROFOAM[®] RM BRAND EXTRUDED POLYSTYRENE THERMAL INSULATION

1. Product and Company Identification

Product Name: STYROFOAM[®] ROOFMATE[®], 24 x 96 inch Extruded Foam Roof Insulation

Manufacturer: DDP Specialty Electronic Materials, Wilmington, DE 19805
Emergency Phone: 800-424-9300

2. Composition/Information on Ingredients:

Chemical Nature: Construction and composite applications

This product is an article.

Contains no hazardous ingredients according to GHS

3. Physical and Chemical Properties:

Boiling Point Not Applicable
Vapor Pressure Not Applicable
Vapor Density Not Applicable
Solubility in water None
Specific Gravity/Density 0.027 to 0.064
Appearance Grey Rigid Cellular Foam Board
Odor No Odor

4. Fire and Explosion Hazard Data:

Flash Point 670°F/354°C Flash Ignition Temperature
Method Used ASTM D1929 Proc. B.
Flammable Limits LFL Not Applicable
Flammable Limits UFL Not Applicable
Extinguishing Media Water Fog or fine spray. Dry chemical fire
..... extinguishers. Carbon Dioxide fire extinguishers.
..... Foam.
Melting Point 90 - 130°C (194-266°F) Estimated

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

4. Fire and Explosion Hazard Data (continued):

Hazardous Combustion Products: In smoldering or flaming conditions, carbon monoxide, carbon dioxide and carbon are generated. Evolution of small amounts of hydrogen halides occurs when burned or heated above 250°C (480°F). Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified and/or irritating compounds. Studies have shown that the products of combustion of this foam are not more acutely toxic than the products of combustion of common building materials, such as wood.

Fire-fighting Instructions: Keep people away. Isolate fire area and deny unnecessary entry. If material is molten, do not apply direct water stream. Use fine water spray or foam. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone.

Protective Fire-fighting Equipment: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not used, fight fire from protected location or safe distance.

5. Reactivity Data:

Stability: Thermally stable at typical use temperatures.

Conditions To Avoid - Avoid direct sunlight. Maximum use temperature is 73°C (165°F). Avoid temperatures over 300°C (572°F). Product can decompose at elevated temperatures.

Incompatibility with Other Materials: Avoid contact with oxidizing materials. Avoid contact with aldehydes, amines, esters, liquid fuels, and organic solvents.

Hazardous Decomposition Products: Does not normally decompose. Evolution of small amounts of hydrogen halides occurs when heated above 250°C (482°F). Decomposition products can include and are not limited to: Aromatic compounds, Aldehydes, Hydrogen halides, Polymer fragments. Toxic flammable gases can be released during decomposition. Under high heat, non-flaming conditions, small amounts of aromatic hydrocarbons such as styrene and ethylbenzene are generated.

Hazardous Polymerization: Will not occur.

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

6. Health Hazard Data:

Eye: Solid or dust may cause irritation or corneal injury due to mechanical action.

Skin Contact: Essentially nonirritating to skin. Mechanical injury only. Skin absorption is unlikely due to the physical properties.

Ingestion: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. May cause choking or blockage of the digestive tract if swallowed.

Inhalation: Dust may cause irritation to the upper respiratory tract (nose and throat). Vapors/fumes released during thermal operations such as hot wire cutting may cause eye and respiratory irritation. Concentrations of the blowing agents anticipated incidental to proper handling are expected to be well below those which cause acute inhalation effects and below exposure guidelines. The LC50 has not been determined.

Systemic (Other Target Organ) Effects: Based on available data, repeated exposures to dusts of this material are not anticipated to cause significant adverse effects.

Cancer Information: Contains component(s) which did not cause cancer in long-term animal studies.

Teratology (Birth Defects): Contains component(s) which did not cause birth defects in laboratory animals.

Reproductive Effects: No relevant information found.

7. First Aid:

Eyes: Flush eyes with plenty of water; mechanical effects only.

Skin: Wash off in flowing water or shower.

Ingestion: If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Note to Physician: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. Exposure may increase "myocardial irritability." Do not administer sympathomimetic drugs unless absolutely necessary.

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

8. Handling and Storage:

Handling: Maintain good housekeeping. Layers of flammable dusts should not be permitted to accumulate. See Section 10, Exposure Controls/Personal Protection.

WARNING: In order to prevent buildup of combustible vapors, do not store large quantities of this product in unventilated spaces. Transport bulk shipments of this product in ventilated vehicles.

Storage: Flammable vapors may accumulate in some storage situations. Storage, use and handling areas should be “No Smoking” areas. See Section 10, Exposure Controls/Personal Protection.

Minimize sources of ignition, such as static buildup, heat, spark or flame.

When storing or fabricating large quantities of extruded polystyrene foam, the blowing agents released from the foam, if any, may thermally decompose to hydrogen chloride, which tends to accelerate corrosion or rust development of heaters, boilers, gas fired recirculating air furnaces or heaters, or gas water heaters.

This polystyrene foam plastic product is combustible and should be protected from flame and other high heat sources. It should be installed with code-acceptable thermal barriers or used in approved alternative constructions.

9. Accidental Release Measures: (See Section 15 for Regulatory Information):

Protect People: Clear non-emergency personnel from area. Use appropriate safety equipment. For additional information, refer to Section 10, Exposure Controls/Personal Protection.

Protect the Environment: Firewater run off may be toxic.

Cleanup: Pick up, or if dust or in small pieces, sweep up and place in suitable container for disposal. See Section 13, Disposal Considerations.

10. Exposure Controls/Personal Protection:

Engineering Controls: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. 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 atmospheres, use an approved dust respirator.

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

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

Eye Protection: Use Safety Glasses. If there is a potential for exposure to particles, which could cause mechanical injury to the eye, wear chemical goggles.

11. **Toxicological Information:** (See Section 6 for Health Hazard Data. For detailed toxicological data, write or call DDP Specialty Electronic Materials)

12. **Ecological Information:**

Ecotoxicological information on this product or its components appear in this section when such data is available.

Toxicity

Acute toxicity to fish

Not expected to be acutely toxic to aquatic organisms.

Persistence and degradability

Biodegradability: Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

Bioaccumulative potential

Bioaccumulation: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

Mobility in soil

In the terrestrial environment, material is expected to remain in the soil.

In the aquatic environment, material is expected to float.

13. **Disposal Considerations:** (See Section 15 for Regulatory Information)

Disposal: All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

For unused & uncontaminated product, the preferred options include sending to a licensed, permitted: recycler, re-claimer, incinerator or other thermal destruction device, landfill.

For additional information, refer to Section 8, Handling & Storage Information.

The DDP Specialty Electronic Materials can provide names of information resources to help identify waste management companies and other facilities, which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Call DDP Customer Information at 800-424-9300 for further details.

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

14. Transportation Information:

Department of Transportation (DOT): This product is not regulated by the DOT when shipped domestically by land.

Canadian TDG Information: This product is not regulated by the TDG when shipped domestically by land.

15. Regulatory Information: (Not meant to be all-inclusive - selected regulations represented)

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OSHA Hazard Communication Standard

-This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Superfund Amendments and Reauthorization Act of 1986 Title III
(Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

-This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

**Superfund Amendments and Reauthorization Act of 1986 Title III
(Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

-This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Worker and Community Right-To-Know Act:

-To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

T. Clear Corporation ProGuard[®]
Concrete Insulated Sheathing Panel
MATERIAL SAFETY DATA SHEET

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

-This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

United States TSCA Inventory (TSCA)

-The product meets the definition of an article and is exempt from inventory requirements.

Canadian Regulations

WHMIS Information: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This Product is not a “Controlled Product” under WHMIS.

Canadian Environmental Protection Act (CEPA): All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. Other Information:

National Fire Protection Association (NFPA) Ratings:

Health..... 1
Flammability 1
Reactivity..... 0