1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier
Product Name WallGUARD

Other means of identification
Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Below and At Grade insulation
Uses advised against No information available

Supplier's details

Supplier Address
T. Clear Corp.
3255 Symmes Road
Hamilton, OH 45015
TEL: 513-870-9246

Emergency Telephone Number
1-800-755-0825

2. HAZARDS IDENTIFICATION

Classification
This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard
29CFR 1910.1200

Precautionary Statements
Prevention
None

General Advice
None

Storage
None

Disposal
If conditions allow, this polystyrene foam plastic product may be reused or recycled where recycling programs and facilities exist. If reuse or recycling are not options, then incinerate in an approved waste-to-energy process with excess oxygen; or bury in an approved landfill. The disposal method must be in accordance with all local, state, and federal regulations.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information
None
3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Construction and composite applications
This product is an article.

Dow® STYROFOAM™ DECKMATE™

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propenonitrile, polymer with ethenylbenzene</td>
<td>9003-54-7</td>
<td>&gt;60.0 - &lt;100.0%</td>
</tr>
<tr>
<td>Styrene, polymers</td>
<td>9003-53-6</td>
<td>&lt;=10.0%</td>
</tr>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>811-97-2</td>
<td>&gt;=5.0 - &lt;=10.0%</td>
</tr>
</tbody>
</table>

MODIFIED LATEX CONCRETE TOPPING

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement</td>
<td>65997-15-1</td>
<td>10 - 25%</td>
</tr>
<tr>
<td>Heavy Weight Aggregate</td>
<td>9003-53-6</td>
<td>60 - 80%</td>
</tr>
<tr>
<td>Latex</td>
<td>98-82-8</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&lt;10%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of necessary first-aid measures

**Eye Contact**
Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Skin Contact**
Wash off with water. Consult a physician if necessary.

**Inhalation**
Move to fresh air. If symptoms arise, call a physician.

**Ingestion**
No emergency medical treatment necessary.

Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects**: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician**:
No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**
No information available.

**Specific Hazards Arising from the Chemical**
During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. In smoldering or flaming conditions, carbon monoxide, carbon...
dioxide and carbon are generated. Combustion products may include and are not limited to: Hydrogen halides. Based on combustion toxicity testing, the effects of combustion from this foam are not more acutely toxic than the effects of combustion from common building materials such as wood.

**Unusual Fire and Explosion Hazards:**
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 contains a flame retardant to inhibit accidental ignition from small fire sources. This plastic foam product is combustible and should be protected from flames and other high heat sources. For more information, contact Dow. Dense smoke is produced when product burns. Advice for firefighters

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

**Special protective equipment for firefighters:**
Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures :**
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection

**Environmental Precautions :**
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information

**Methods and materials for containment and cleaning up:**
Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information

**7. HANDLING AND STORAGE**

**Precautions for safe handling:**
Fabrication methods which involve cutting into this product may release the blowing agent(s) remaining in the cells. Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet. Do not enter confined spaces unless adequately ventilated. 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. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Conditions for safe storage:**
When large quantities of this product are stored or fabricated, blowing agents may be released. Released blowing agents may thermally decompose to form gases which may accelerate corrosion or rust formation of heaters, boilers, gas fired recirculating air furnaces or heaters, or gas water heaters.

**Storage stability:** Shelf life: Use within 360 Month
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

<table>
<thead>
<tr>
<th>Component</th>
<th>Regulation</th>
<th>Type of Listing</th>
<th>Value/Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>US WEEL</td>
<td>TWA</td>
<td>1,000 ppm</td>
</tr>
</tbody>
</table>

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.

Exposure controls

Engineering controls:
Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection:
Eye protection should not be necessary. For fabrication operations safety glasses (with side shields) are recommended. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin protection:
Hand protection: Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.
Other protection: No precautions other than clean body-covering clothing should be needed.

Respiratory protection: should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. 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. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Board</td>
</tr>
<tr>
<td>Color</td>
<td>Grey and Blue</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>90 - 130 °C (194 - 266 °F) Estimated</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point (760 mmHg)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid gas)</td>
<td>Not expected to form explosive dust-air mixtures</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Vapor Density (air = 1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Density (water = 1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>354 °C (669 °F) ASTM D1929</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>No data available</td>
</tr>
</tbody>
</table>

NOTE: The physical data presented above are typical values and should not be construed as a specification.
10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

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

Incompatible materials

Hazardous decomposition products
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 halides. Polymer fragments. Styrene. Under high heat, non-flaming conditions, small amounts of aromatic hydrocarbons such as styrene and ethylbenzene are generated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity
Swallowing is unlikely because of the physical state. Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. As product: Single dose oral LD50 has not been determined.

Acute dermal toxicity
Skin absorption is unlikely due to physical properties. As product: The dermal LD50 has not been determined.

Acute inhalation toxicity
Dust may cause irritation to upper respiratory tract (nose and throat). Fumes/vapors released during thermal operations such as hot wire cutting may cause 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.

Skin corrosion/irritation
Essentially nonirritating to skin. Mechanical injury only.

Serious eye damage/eye irritation
Solid or dust may cause irritation or corneal injury due to mechanical action. Fumes/vapor released during thermal operations such as hot-wire cutting may cause eye irritation.

Sensitization
Relevant data not available.

For respiratory sensitization:
Relevant data not available.

Specific Target Organ Systemic Toxicity (Single Exposure)
Available data are inadequate to determine single exposure specific target organ toxicity.
Specific Target Organ Systemic Toxicity (Repeated Exposure)
Based on available data, repeated exposures are not anticipated to cause significant adverse effects. Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

Carcinogenicity
Relevant data not available.

Teratogenicity
Contains a component(s) that is/are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

Reproductive toxicity
Contains a component(s) that is/are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

Mutagenicity
Relevant data not available.

Aspiration Hazard
Based on physical properties, not likely to be an aspiration hazard.

COMPONENTS INFLUENCING TOXICOLOGY:

2-Propenenitrile, polymer with ethenylbenzene
Acute oral toxicity
LD50, Rat, > 5,000 mg/kg Estimated.
Acute dermal toxicity
The dermal LD50 has not been determined.
For similar material(s): LD50, Rabbit, > 2,000 mg/kg Estimated.

Styrene, polymers
Acute oral toxicity
Single dose oral LD50 has not been determined.
Acute dermal toxicity
The dermal LD50 has not been determined.

1,1,1,2-Tetrafluoroethane
Acute oral toxicity
Single dose oral LD50 has not been determined.
Acute dermal toxicity
The dermal LD50 has not been determined.

12. ECOLOGICAL INFORMATION

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. 1,1,1,2-tetrafluoroethane (HFC-134a) remains in the foam and diffuses out slowly, most of it degrading in the troposphere to CO2 and HF. 1,1,1,2-Tetrafluoroethane (HFC-134a) has a stratospheric ozone depletion potential (ODP) of zero, relative to CFC 12 (ODP=1).

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.

Mobility in water
In the aquatic environment, material is expected to float.

13. DISPOSAL CONSIDERATIONS

Disposal methods:
DO NOT DUMP INTO ANY SEwers, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices 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. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Landfill. Incinerator or other thermal destruction device

14. TRANSPORT INFORMATION

DOT
Not regulated

IATA
Not regulated

IMDG/IMO
Not regulated

15. REGULATORY INFORMATION

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.

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
16. OTHER INFORMATION

Information Source and References
This SDS is prepared by T Clear Corporation from information supplied by internal references within our company and Supplier SDS.

T Clear Corporation urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.