



Royal Paints

**THERMO STONE** Fze

" A sustainable Green Building Technological Company"

(Licenced Manufacturers of ThermoCon Panel, Thermo Board & Royal Paints)

Material Safety Data Sheet

Thermo Stone® Brand Products

MSDS No.: MBGEP-032107-5

Page 1 of 8

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## SECTION 1: COMPANY AND PRODUCT INFORMATION

Thermo Stone fze  
Hamriyah Free Zone,  
Sharjah,  
United Arab Emirates.

Office : + 971 65 260646

Website : www.thermostones.com

Email : info@thermostone.com

Use : Exterior: sheathing, fascia, Soffit, ceiling board, drop ceiling, roofing substrate, siding, trim material.

Interior: wallboard, ceiling board, tile backer board, underlayment, flooring substrate.

Structural Insulated Panels (SIPS) and Exterior Insulated Finish Systems (EIFS)

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (By Wt)	CAS No.	Hazard Class	Proportion
Magnesium Oxide	1309-48-4	None	>40%
Magnesium Chloride	7786-30-3	None	<20%
EPS	93763-70-3	None	<15%
Proprietary Additives	N/A	None	<2%
Fiberglass Scrim	65997-17-3	None	<1%

### SECTION 3: HAZARDS IDENTIFICATION

**Emergency Overview:** Non-toxic, non explosive and is not a fire hazard.

**Primary Routes of Entry:**

**Eyes:**

Dust may irritate the eyes from mechanical abrasion causing watering and redness.

**Skin:**

Dust may cause irritation of the skin from friction but cannot be absorbed through intact skin.

**Ingestion:**

Unlikely under normal conditions of use, but swallowing the dust from this product may result in irritation to the mouth and gastrointestinal tract.

**Inhalation:**

Dust may cause irritation of the nose, throat, and airways, resulting in coughing and sneezing. Certain susceptible individuals may experience wheezing (spasms of the bronchial airways) on inhaling dust during sanding or sawing operations.

### SECTION 4: FIRST AID MEASURES

**EYES:**

Remove contact lens. Flush with running water or saline for at least 15 minutes. Seek medical attention if redness persists or if visual changes occur.

**SKIN:**

Wash with mild soap and water. Contact physician if irritation persists or later develops.

**INGESTION:**

If ingested, dilute by drinking large amounts of water. Do not induce vomiting. Seek medical attention.

If unconscious, loosen tight clothing and lay the person on his / her side. Give nothing by mouth to an individual who is not alert and conscious. Seek medical attention.

**INHALATION:**

Remove to fresh air. If shortness of breath or wheezing develops, seek medical attention.

**NOTES TO PHYSICIAN OR FIRST AID PROVIDERS:**

Treat symptomatically.



## SECTION 5: FIRE-FIGHTING MEASURES

Thermo Stone™ Building Products are non flammable, non explosive and non combustible.

### Fire and Explosion Hazard

**Flash Point** : Not applicable.

**Auto-ignition:** Not applicable

### Extinguishing Media:

This material is non combustible. Appropriate extinguishing media should be used for surrounding fire.

### Fire Fighting:

Fire fighting personnel should wear normal protective equipment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

No special precautions are necessary to pick up product that has been dropped. The following applies only to spills or releases of dust generated during cutting or sanding Thermo Board®.

### Precautions:

Good housekeeping practices are necessary for cleaning up areas where dust has been produced. Take measures to either eliminate or minimize the creation of dust.

Wherever possible, practices likely to generate dust should be controlled with engineering controls such as local exhaust ventilation, dust suppression with water and containment, enclosure or covers.

### Cleanup Methods:

A fine water spray may be used to suppress dust when sweeping (dry sweeping is not recommended). Vacuuming with an industrial vacuum cleaner outfitted with a high-efficiency particulate (HEPA) filter is recommended over sweeping. Waste may be disposed of by landfill in compliance with federal, provincial, state and local requirements governing non-toxic mineral materials

Avoid using materials and products that are incompatible with this product.  
(Refer to section 10.)

## SECTION 7: HANDLING AND STORAGE

Handling and Storage Products in their intact state do not present a health hazard. The controls below apply to dust generated from the boards by cutting, drilling, routing, sawing, crushing, or otherwise abrading, and cleaning or moving sawdust.

### Other Precautions:

Even though Thermo Board® has been tested and deemed non toxic, Thermo Stone Building Products recommends that exposure to dust be kept as low as reasonably possible. Respirable levels should not exceed those specified by OSHA and MSHA and identified in this MSDS. Exposure to respirable (fine) dust depends on a variety of factors, including activity rate (i.e. cutting rate), method of handling (i.e. electric shears), environmental conditions (i.e. weather conditions, workstation orientation) and control measures used.

Wherever possible, practices likely to generate dust should be carried out in well ventilated areas (i.e. outside). The work practices and engineering controls set out in Section 8 should be followed as precautions to reduce dust exposures.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Controls

#### Cutting Outdoors:

1. Thermo Stone Building Products recommends positioning cutting station so that wind will blow dust away from user or others in working area and allow for ample dust dissipation.
2. Use one of the following methods based on the required cutting rate and jobsite conditions.

#### Best

- Score and snap using carbide-tipped scoring knife or utility knife  
(Ability to use this method depends on thickness of Thermo Board® being installed.)
- Fibercement board shears (electric or pneumatic).

#### Better

- Dust reducing circular saw equipped with appropriate blade and HEPA vacuum extraction.

#### Good (for low to moderate cutting only)

- Dust reducing circular saw with appropriate saw blade.
- Always use correct tools when executing all cutting operations.



**Ventilation:**

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limit.

**Respiratory Protection:**

Dust mask is recommended.

**Eye Protection:**

When cutting material, dust resistant safety goggles / glasses should be worn and used in compliance with ANSI Standard Z87.1-1-1989 and applicable OSHA (i.e. 29 CFR 1910.133) standards.

**Skin Protection:**

Loose comfortable clothing should be worn. Thermo Stone Building Products recommends that direct skin contact with dust and debris be avoided when possible by wearing long sleeved shirts and long trousers, a cap or hat, and gloves.

**Sanding / Drilling / Other Machining:**

If sanding, drilling, or other machining is conducted, Thermo Stone Building Products recommends wear a NIOSH-approved dust mask.

**Important Notes:**

1. For maximum protection (lowest respirable dust production), Thermo Stone Building Products recommends always using "Best" level cutting methods where feasible.
2. Always use a circular saw blade that is appropriate for the specific operation being undertaken.
3. Dry sweeping is not the preferred clean up method – Thermo Stone Building Production suggests wet suppression methods or HEPA vacuum.
4. It is not recommended that a grinder or continuous rim diamond blade be used for cutting.
5. Always follow tool manufacturer's safety recommendations.



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

Various colors depending on application, each with varying dimensions according to product used.

**Odor:**

Very mild

**Physical State:**

Solid boards

**Vapor Pressure:**

Not relevant.

**Specific Gravity:**

Not relevant.

**Flammability Limits:**

Not relevant.

**Boiling Point:**

Not relevant

**Melting Points:**

Not relevant.

**Flash Point:**

Not relevant.

**Auto-ignition Temperature:**

Not relevant.

**Volatility:**

Not relevant.

**Solubility in Water:**

Not relevant.

**Evaporation rate:**

Not applicable.

**NFPA Ratings (Scale 0 – 4)**

Health = 1

Flammability = 0

Reactivity = 0

Personal Protection = E



## SECTION 10: STABILITY AND REACTIVITY

### Stability:

The Thermo Stone products identified in section 1 are stable under ordinary conditions.

### Conditions to Avoid:

Excessive dust generation without proper dust mask protection

### Materials to Avoid:

Incompatibility: Hydrofluoric acid will dissolve Magnesium Oxide and can generate Magnesium Chloride fumes.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Thermo Stone® products are non toxic in their intact form. The following applies to dust that may be generated during cutting and sanding.**

### Chronic Effects:

**Inhaled:** Repeated and prolonged overexposures to dust may cause increased risk of bronchitis. It is possible that repeated inhalation exposure to Thermo Board® fiber dust over time may lead to inflammation of the lungs in humans. All necessary precautions should be taken to prevent inhalation of dust to prevent these problems.

## SECTION 12: ECOLOGICAL INFORMATION

Because Magnesium Oxide is a naturally occurring mineral, releases that may occur into the environment are not expected to leave any hazardous material that could cause a significant adverse impact.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of material, as an inert, inorganic mineral, in conformance with federal, provincial, state and local regulations. Thermo Board® is not an RCRA hazardous waste.

## SECTION 14: TRANSPORT INFORMATION

There are no special requirements for storage and transport of Thermo Board™.

UN No	:	None allocated
Dangerous Goods Class	:	None allocated
Hazchem Code	:	None allocated
Poisons Schedule	:	None allocated
Packing Group	:	Not applicable
Label	:	Not a DOT hazardous material.

## SECTION 15: REGULATORY INFORMATION

DOT Hazard Classification : None

Placard Requirement : Not a DOT hazardous material.

CERCLA Hazardous Substance (40 CFR Part 302)

Listed substance : No  
Unlisted Substance : No  
Reportable Quantity (RQ) : None  
Characteristic(s) : Not applicable  
RCRA Waste Number : Not applicable

## SECTION 16: OTHER INFORMATION

### Preparation of Information and Disclaimer:

This form has been prepared to meet current Federal OSHA hazard communication regulations and is offered without any warranty or guarantee of any type. Thermo Stone Building Products cannot control the use of its products, and therefore specifically disclaims liability and responsibility arising from the use, misuse and alteration of its products.

The information contained in this MSDS was produced without independent scientific or medical studies analyzing the effects of Thermo Board® dust upon human health. The information contained herein is based upon scientific and other data Thermo Stone Building Products believes

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