



# **MSDS**

## **Material Safety Data Sheet**

Date of Issue: 2020-08-15



## Section 1: Product Information

**Product Name:** ZS2 TECHBOARD™  
**Manufacture:** ZS2 TECHNOLOGIES LTD  
**Address:** #203, 5005 Elbow Dr SW, T2S 2T6  
**Produce Use/Class:** MgSO<sub>4</sub> High-End  
**Recommend Use:** External/Interior Cladding, Flooring  
**Telephone:** 587-208-4972  
**Email:** info@zs2technologies.com  
**WEB:** www.zs2technologies.com

## Section 2: Composition and Information on Ingredients

Substance Name	UN #	CAS #	% by weight
Magnesium Oxide	Not a hazardous material for shipping	1309-48-4	47
Magnesium Sulfate	Not a hazardous material for shipping	7786-30-3	20
Linking Composite	Not a hazardous material for shipping	NA	<8
Perlite	Not a hazardous material for shipping	93763-70-3	<10
Cellulose	Not a hazardous material for shipping	9004-34-6	<5
Water	Not a hazardous material for shipping	7732-18-5	<18
Fiber Glass Mesh	Not a hazardous material for shipping	65997-17-3	<10

## Section 3: Physical and Chemical Properties

Boiling Point: N/A  
Vapor Pressure @ 20°C: None  
Vapor Density @ 1 Atmosphere: None  
Specific Gravity: >1  
pH: 11  
Percent Volatile by Volume: 0  
Appearance: Light white powder  
Odour: Slight cement odour  
Evaporation Rate: N/A  
Physical State: Solid Powder  
Solubility: Insoluble in Water  
Flash Point: N/A



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## Section 4: Hazards Identification

### Potential effect of single (Acute Over exposure)

**Eye:** May cause abrasions of the cornea.

**Skin:** May result in redness and dermatitis; prolonged exposure may cause dry skin.

**Ingestion:** Single dose oral toxicity is low.

**Inhalation:** Immediately remove victim to fresh air, seek competent medical attention immediately. If breathing has stopped call 911 and give artificial respiration. An authorized person should administer oxygen to victim who is having difficulty breathing until normal breathing has resumed.

**Medical Conditions Generally Aggravated by Exposure:** The condition of individuals with lung disease (e.g., bronchitis, emphysema, chronic obstructive pulmonary disease) can be aggravated by exposure.

## Section 5: First Aid Measures

**Eye contact:** Eye contact with dust may lead to transient eye irritation or inflammation. In case of contact, immediately flush eyes with water for at least 15 minutes. Seek medical attention if irritation continues.

**Skin Contact:** Prolonged skin contact may lead to skin irritation in some instances. Wash with soap water. Get medical attention if irritation develops.

**Inhalation:** May cause irritation to the respiratory tract and to other mucous membranes. Move to a ventilated area. If breathing has stopped start artificial respiration and call 911 at once. An authorized person should administer oxygen to the victim who is having difficulty breathing until the victim is able to breathe easily on his/her own.

**Ingestion:** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Ingestion is considered unlikely. Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, seek medical assistance.

**Notes to Physician:** Treat symptomatically.

## Section 6: Fire Fighting Measures

**General Information:** This material is not flammable, combustible or explosive.

**Extinguishing Media:** Not applicable



## Section 7: Accidental Release Measures

**Spills/Leaks:** Use dustless methods (vacuum) and place into closable container for disposal, or flush with water. Do not dry sweep.

**Handling:** Do not breathe dust. Use adequate ventilation and dust collection. Keep Airborne dust concentrations below Permissible Exposure Limit (PEL). Do not rely on your sight to determine if dust is in the air.

**Storage:** Panels should be stored flat under cover in a well-ventilated area and kept away from incompatibles such as oxidizing agents and acid.

## Section 8: Exposure Controls and Personal Protection Equipment

### OSHA allowed Exposure standards (PEL):

Exposures shall not exceed 8 hours weighted average for mineral dusts – for more information as stated in 29 CFR 1910.1000 table Z-3.

Substance Name	TLV (mg/m <sup>3</sup> )	PEL (mg/m <sup>3</sup> )	Total dust	Respirable
Magnesium Oxide	15	15	10	0.05
% MgO	15	15	15	5
Magnesium Sulfate	15	15	15	5
MgSO <sub>4</sub> .7H <sub>2</sub> O	15	15	15	5
Cellulose	-	-	15	5
Others	10	-	15	5
Perlite	15	15	15	5
Linking components and glass fiber mesh	10	15	15	5

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limit. When working with Z22 Techboard, such activities such as cutting, drilling and sanding should be conducted in such a way as to minimise the creation of free-floating dust particles. As far as practicable, cutting equipment should be fitted with dust bags and completion of end of work, a HEPA vacuum cleaner should be used to remove excess dust.

### Personal Protective Equipment

**Eyes:** At a minimum wear safety goggles (plastic lenses) or full-face plastic shield when cutting material in compliance with ANSI standard Z87.1-1-1989. Do Not wear contact lenses.

**Skin:** Wear appropriate protective clothing to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** You should always wear a NIOSH approved dust mask or P2 Mask. This is recommended when sanding, cutting, drilling, cleaning up, etc. Always use approved vacuum extraction.





## Section 9: Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal temperature and pressures.
<b>Conditions to Avoid:</b>	None
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Polymerization:</b>	Will not occur

## Section 10: Regulatory Information

<b>RCRA D Series:</b>	None Listed
<b>RCRA F Series:</b>	None Listed
<b>RCRA P Series:</b>	None Listed
<b>RCRA U Series:</b>	None Listed

### Listed HMIS & NFPA Information

Health:	1	Flammability:	0
Reactivity:	0	SARA:Corrosivity:	0

### TSCA

None of the chemicals in this product are on the health and safety list. Chemical Test Rules, none of the chemicals in this product are under a chemical Test Rule.

### Clean Air Act

Reportable quantity: None of the chemicals in this product have RQ amounts. None of the chemicals in this product have a TPQ.

**OSHA:** This material does not contain any hazardous air pollutants. This material does not contain any class 1 ozone depleters. This material does not contain any class 2 ozone depleters. None of the chemicals in this product are considered highly hazardous by OSHA.

## Section 11: Toxicological Information

**This product is not toxic in its intact form. There are no special requirements for storage and transport. The product is not a RCRA hazardous waste.**

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 sole responsibility 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.

**Failure to follow the MSDS and Instruction Manual may lead to serious injury or even death.**



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