CALCIUM SILICATE BOARD – 12MM

Company Details

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1. Product Identification

Product Name : Calcium Silicate Board

Recommended Use : Board for construction, mainly used in wallboard, ceiling board, floorboard etc.

2. Composition

Chemical Name	%	CAS Number
Quartz sand (SiO_2)	50 – 60%	14808-60-7
Lime ($Ca(OH)_2$)	15 – 20%	1305-62-0
Cement ($3CaO{\cdot}SiO_2$)	15 – 18%	65997-15-1
Wood pulp (fiber) ($(C_6H_{10}O_5)_n$)	10%	65996-61-4
Wollastonite ($CaSiO_3$)	6 – 10%	13983-17-0
Others	4%	NA

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3. Hazards Identification

Main hazard	:	Vermiculite is a non-flammable, non-combustible mineral. The primary occupational hazard is airborne dust generated during handling, which may cause eye and respiratory tract irritation if inhaled or if it enters the eyes.
Flammability	:	Nonflammable, non-combustible.
Chemical hazards	:	None
Biological hazards	:	None
Reproductive hazards	:	None
Eye effects	:	Possible irritation from dust particles
Health effects – skin absorption	:	None
Health effects – ingestion	:	None
Health effects – inhalation	:	Excessive inhalation over long period may cause harmful irritation
Carcinogenicity	:	Non-carcinogenic
Mutagenicity	:	n/a
Neurotoxicity	:	n/a

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4. First Aid Measures

Skin : In case of contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes. If irritation persists, call a physician.

Eye : Flush with copious amount of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

Swallowed : If victim is conscious, wash mouth out with water. Get medical aid immediately.

5. Fire Fighting Measures

Extinguishing media: Use water spray, dry chemical, carbon dioxide or appropriate foam.

Firefighting : Protective Equipment – wear self-contained breathing apparatus and protective clothing, prevent contact with skin and eyes.

6. Accidental Release Measures

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation. Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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7. Handling and Storage

Handling: Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Mechanical exhaust required. Keep away from ignition sources, heat, and flame. Incompatibilities – strong oxidizing agents, acids. No smoking at working site.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container in a cool, dry, well-ventilated area away from incompatible substances. Incompatible – strong oxidizing agents, acids.

8. Exposure Controls / Personal Protective Equipment

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Respiratory Protection	**:**	Government approved respirator if needed
Eye Protection	**:**	Chemical safety goggles if needed.
Hand Protection	**:**	Safety gloves
Clothing	**:**	Wear appropriate protective clothing.
Other Protection	**:**	No smoking, drinking, and eating at working site. Wash thoroughly after handling.

9. Physical / Chemical Properties.

Appearance	:	Gray block solid
Odour	:	Weak odour
Melting Point	:	>350°C
pH Value	:	Not applicable
Solubility	:	Hardly soluble in water
Weight	:	50 kg
Density	:	1400 kg/m³
Panel Size	:	1,220mm x 2,440mm x 12mm

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10. Stability and Reactivity

- Stability – stable under normal temperatures and pressures.
- Materials to avoid – strong oxidizing agents, acids.
- Hazardous polymerization – will not occur
- Hazardous decomposition products – silicon oxides, calcium oxides, carbon oxides.

11. Toxicological Information

No toxicity data available.
Irritation data – power may cause irritation to eyes, respiratory system, and skin.

12. Ecological Information

No data available

13. Disposal Consideration

Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Observe all local authority environmental guidelines.

14. Transport Information

Calcium Silicate Boards are non-hazardous for transport.

15. Regulatory Information

EU Additional Classification

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 1999/45/EEC.

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16. Other Information

Calcium Silicate Board has a Fire Rating of 60 minutes

Revision history:

Previous issue	July 2016
Revision 4	March 2021
Revision 5	June 2026

Key Abbreviations:

EC	=	European Community
EEC	=	European Economic Community

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