



Material
Safety Data Sheet
CALCIUM SILICATE
INSULATION MATERIAL
MSDS NO.:AJT101020007E

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

Identification of the substance or preparation

Product Name: Calcium silicate insulation material
Product Use: Insulation materials, refractories

Company/undertaking identification:

Company Name: ZHEJIANG ASK NEW INSULATION MATERIALS CO., LTD.
Address: SANGYUAN NEW VILLAGE, CHONGREN TOWN, SHENGZHOU, ZHEJIANG, 312473, CHINA
Tel: 0086-575-83091388
Fax: 0086-575-83091197
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2. HAZARDS IDENTIFICATION

Emergency Overview

APPEARANCE AND ODOR:

Odorless, white, board insulation material.

Due to product form, this product qualifies as an article in that its end use is dependant upon its shape and design, and which under normal conditions of use this product is not expected to create any unusual emergency hazards. However, cutting, sawing, or abrading may increase the risk of personnel exposure. Exposure limits are given for reference only. Inhalation of excessive amounts of dust created when fabricating, cutting, or other mechanical alterations of the product may cause temporary upper respiratory irritation and/or congestion— remove affected individuals to fresh air. Skin irritation may be treated by gently washing affected area with soap and warm water. Eye irritation may be treated by flushing eyes with large amounts of water. If irritation persists, contact a physician. Prolonged contact with dust from this product may cause Dermatitis. In the event of fire, use normal fire fighting procedures to prevent inhalation of smoke and gases.

Potential Health Effects

Summary

Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing. Getting dust or fibers on the skin, or in the eyes may cause itching, rash, or redness. Breathing large amounts of dust or fibers from this product may lead to chronic health effects as discussed in Section 11 of this material safety data sheet.

Inhalation

Irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

Skin

Temporary irritation (itching) or redness may occur.

Absorption



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Not applicable

Ingestion

This product is not intended to be ingested or eaten under normal conditions of use. If ingested, it may cause temporary irritation to the gastrointestinal (GI) tract, especially the stomach.

Eyes

Temporary irritation (itching) or redness may occur.

Target Organs

Upper respiratory passages, skin, and eyes.

Primary Routes of Entry (Exposure)

Inhalation (breathing dust), skin, and eye contact.

Medical Conditions Aggravated by Exposure

Pre-existing chronic respiratory, skin, or eye diseases or conditions may be aggravated by exposure to this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Preparation

Ingredients Name	Content/%	CAS NO.	EC NO.	Risk Phrases & Classification
Silicic acid, calcium salt	84.65	1344-95-2	215-710-8	-
Aluminum oxide	2.8	1344-28-1	215-691-6	-
Diiron trioxide	2	1309-37-1	215-168-2	-
Magnesium oxide	1.58	1309-48-4	215-171-9	-
Other no toxic additives	8.97	mixture	mixture	-

Note: See Section 8 of MSDS for exposure limit data for these ingredients. Full text of risk phrases appearing in section 3: see section 16.

4. FIRST AID MEASURES

First Aid: Inhalation

Remove to fresh air. Drink water to clear throat, and blow nose to remove dust.

First Aid: Skin

Wash gently with soap and warm water to remove dust. Wash hands before eating or using the restroom.

First Aid: Ingestion

Product is not intended to be ingested or eaten. If this product is ingested, irritation of the gastrointestinal (GI) tract may occur, and should be treated symptomatically. Rinse mouth with water to remove fibers, and drink plenty of water to help reduce the irritation. No chronic effects are expected following ingestion.



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First Aid: Eyes

Do not rub or scratch your eyes. Dust particles may cause the eye to be scratched. Flush eyes with large amounts of water for 5-15 minutes. If irritation persists, contact a medical professional.

First Aid: Notes to Physician

This product is a mechanical irritant, and is not expected to produce any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable

Method Used: Not applicable

Upper Flammable Limit (UFL): Not applicable

Lower Flammable Limit (LFL): Not applicable

Auto Ignition: Not determined

Flammability Classification: Non combustible

Rate of Burning: Not applicable

General Fire Hazard

There is no potential for fire or explosion.

Extinguishing Media

Use any extinguishing media appropriate for the surrounding fires

Fire Fighting Equipment/Instructions

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases produced by other materials.

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures

Pick up large pieces. Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Do not dry sweep dust accumulation or use compressed air for clean-up. These procedures will help to minimize potential exposures.

Clean-Up Procedures

Wastes are not hazardous as defined by the RCRA. Comply with state and local regulations for disposal of these products. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

7. HANDLING AND STORAGE

Handling Procedures

Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material. Good housekeeping practices should be used to prevent generation and accumulation of dusts. After handling product, wash face and hands before eating, drinking, or smoking.



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Storage Procedures

Warehouse storage should be in accordance with package directions, if any. Material should be kept dry, and protected from the elements.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

General Product Information

This product may contain trace amounts of crystalline silica as a natural contaminant in the raw materials.

Personal Protective Equipment

Personal Protective Equipment: Eyes/Face

Safety glasses with side shields are recommended to keep dust out of the eyes.

Personal Protective Equipment: Skin

Leather or cotton gloves should be worn to prevent skin contact and irritation. Barrier creams may also be used to reduce skin contact and irritation caused by fiber glass.

Personal Protective Equipment: Respiratory

A respirator should be used if ventilation is unavailable, or is inadequate for keeping dust and fiber levels below the applicable exposure limits.

Ventilation

In fixed manufacturing settings, local exhaust ventilation should be provided at areas of cutting to remove airborne dust and fibers. General dilution ventilation should be provided as necessary to keep airborne dust and fibers below the applicable exposure limits and guidelines. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

Personal Protective Equipment: General

Loose-fitting, long-sleeved clothing should be worn to protect the skin from irritation. Exposed skin areas should be washed with soap and warm water after handling.

EXPOSURE GUIDELINES

Ingredients	ACGIH Threshold Limit Values The 8-Hour Exposure Limit (TLV-TWA)
Calcium silicate (1344-95-2)	Belgium: 10 mg/m ³ VLE Greece: 10 mg/m ³ TWA Ireland: 10 mg/m ³ OEL (inhalable dust); 5 mg/m ³ OEL (respirable dust) UK: 10 mg/m ³ TWA (total inhalable dust); 4 mg/m ³ TWA (respirable dust)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White insulation material.

Physical State: Solid

Odor: Odorless

pH: 8.9



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Vapor Density: Not applicable
Vapor Pressure: Not applicable
Melting Point: 1552°C
Boiling Point: Not applicable
Specific Gravity: 2.9
Solubility (H₂O): Nil
Solubility in other solvent: Soluble in strong acid, not soluble in alcohol and alkaline.
Freezing Point: Not applicable
Viscosity: Not applicable
Evaporation Rate: Not applicable
VOC: 0, None
Percent Volatile: 0

10. STABILITY AND REACTIVITY

Chemical Stability

This is a stable material. This product is not reactive.

Hazardous Decomposition

None.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

A: General Product Information

The primary acute health effects of this product include mechanical irritation of the skin and eyes and skin dryness as a result of contact with dust and fibers.

B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product or its components.

Carcinogenicity

A: General Product Information

OSHA, NTP, IARC, and ACGIH have not classified this product in its entirety as a carcinogen.

B: Component Carcinogenicity

Calcium silicate (1344-95-2)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

12. ECOLOGICAL INFORMATION



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Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

13. DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

A: General Product Information

This product, as supplied, is not regulated as a hazardous waste by the U.S. EPA under RCRA regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORT INFORMATION

The preparation is not classified as dangerous goods

Proper shipping name: None
Hazard class: NA
Packing group: NA
Identification number: Not regulated

15. REGULATORY INFORMATION

US Federal Regulations

A: General Product Information

No information on this product as a whole.

B: Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

No information available for the product.

Other Regulatory Information

A: General Product Information



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No information available for the product.

B: TSCA Status

No information available for the product.

International Regulations

Canada Workplace Hazardous Materials Information System (WHMIS)

WHMIS Classification: D2B– Irritant

Product classified as a manufactured article as defined in Hazardous Product Act (HPA), Section 11(1). Section 12(I) exempts it from the WHMIS supplier label and MSDS requirements of the Act.

16. OTHER INFORMATION

Risk phrases in section 3:

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This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

* * * END OF MSDS * * *