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
Email: info@zjask.com
Emergency Telephone: 0086-575-83091388

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

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

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

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.
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.
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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>ACGIH Threshold Limit Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The 8-Hour Exposure Limit (TLV-TWA)</td>
</tr>
<tr>
<td>Calcium silicate (1344-95-2)</td>
<td>Belgium: 10 mg/m³ VLE</td>
</tr>
<tr>
<td></td>
<td>Greece: 10 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td>Ireland: 10 mg/m³ OEL (inhalable dust); 5 mg/m³ OEL (respirable dust)</td>
</tr>
<tr>
<td></td>
<td>UK: 10 mg/m³ TWA (total inhalable dust); 4 mg/m³ TWA (respirable dust)</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White insulation material.
Physical State: Solid
Odor: Odorless
pH: 8.9
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
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
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:
-

Issue Date: 2010-10-20

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 ***