1. IDENTIFICATION

Product identifier
Durock® Cement Board (with or without EdgeGuard™)

Synonym(s)
Cement Underlayment Board, Cement Panels

Recommended use
Interior or exterior use.

Recommended restrictions
Use in accordance with manufacturer’s recommendations.

Manufacturer / Importer / Supplier / Distributor information/Company name
USG Middle East Ltd
7410 (WASIL) Street #23, Cross 76 (Right)
Second Industrial City
Dammam 34326 – 4201, Kingdom of Saudi Arabia
Tel: +966 13 812 0995 / Fax: +966 13 812 1029
E-mail: info@usgme.com / marketing@usgme.com
Website: https://www.usgme.com

2. HAZARD(S) IDENTIFICATION

Physical hazards
Not classified.

Health hazards
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1
Carcinogenicity Category 1A
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards
Not classified.

OSHA defined hazards
Not classified.

Label elements

Signal word
Danger

Hazard statement
Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation.

Precautionary statement

Prevention
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response
If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call poison center/doctor.

Storage Disposal
Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of in accordance with local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC)
None known

Supplemental information
Not applicable.
4. FIRST-AID MEASURES

Inhalation
Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin contact
Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.

Eye contact
Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion
Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed
Dust may cause skin, eye, throat and respiratory system irritation and cause coughing.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically.

General information
Ensure that medical personnel are aware of the material(s) involved.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
Not applicable.

Specific hazards arising from the chemical
Not a fire hazard.

Special protective equipment and precautions for firefighters
Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Use standard firefighting procedures & consider the hazards of other involved materials.

6. ACCIDENTAL RELEASE MEASURES

Specific methods
Cool material exposed to heat with water spray and remove it if no risk is involved.

Personal precautions, protective equipment and emergency procedures
See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up
No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.

Environmental precautions
Avoid discharge to drains, sewers, and other water systems.

7. HANDLING AND STORAGE

Precautions for safe handling
Use work methods which minimize dust production. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene
Conditions for safe storage, including any incompatibilities
Store all Durock® Panels flat. Store in an enclosed materials shelter providing protection from damage and exposure to the elements.

Occupational exposure limits
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS number</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-3 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS number</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class C Fly ash (CAS 68131-74-8)</td>
<td>TWA</td>
<td>0.8 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 mppcf</td>
<td>Respirable.</td>
</tr>
</tbody>
</table>

Impurities

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS number</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica (Quartz) (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.3 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.4 mppcf</td>
<td>Respirable.</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS number</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Continuous filament glass fiber (CAS 65997-17-3)</td>
<td>TWA</td>
<td>1 fibers/cm³</td>
<td>Respirable fibers (length &gt; 5μm &amp; aspect ratio ≥ 3:1) Inhalable fraction.</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

Impurities

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS number</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica (Quartz) (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.25 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS number</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulfate dihydrate (Alternative CAS 10101-41-4) (CAS13397-24-5)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable</td>
</tr>
<tr>
<td>Class C Fly ash (CAS 68131-74-8)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Stable</td>
</tr>
<tr>
<td>Continuous filament glass fiber (CAS 65997-17-3)</td>
<td>TWA</td>
<td>6 mg/m³</td>
<td>Respirable fibers (3.5 μm in diameter &amp; 10 μm in length) Total dust Fiber. Total Respirable. Total</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>TWA</td>
<td>3 fibers/cm³</td>
<td>Total Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td>Total Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td>Total Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total Respirable.</td>
</tr>
</tbody>
</table>

Impurities

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS number</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica (Quartz) (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls personal protective equipment
Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment
Wear approved safety goggles.
Eye/face protection
Wear approved safety goggles.

Skin protection Hand protection
It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Other
Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. Observe any medical surveillance requirements.

Thermal hazards
None.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

### Appearance
- **Physical state**: Solid.
- **Form**: Board.
- **Color**: Gray
- **Odor**: Low to no odor.
- **Odor threshold**: Not applicable.
- **pH**: 12
- **Melting point/freezing point**: Not applicable.
- **Initial boiling point and boiling range**: Not applicable.
- **Flash point**: Not applicable.
- **Evaporation rate**: Not applicable.
- **Flammability (solid, gas)**: Not applicable.
- **Upper/lower flammability or explosive limits**
  - Flammability limit - lower (%): Not applicable.
  - Flammability limit - upper (%): Not applicable.
  - Explosive limit - lower (%): Not applicable.
  - Explosive limit - upper (%): Not applicable.

### Chemical Properties
- **Vapor pressure**: Not applicable.
- **Vapor density**: Not applicable.
- **Relative density**: 0.8 - 1.2 (H2O=1)
- **Solubility(ies)**: 960 - 1040 kg/m³
- **Partition coefficient (n-octanol/water)**: Not applicable.
- **Auto-ignition temperature**: Not applicable.
- **Decomposition temperature**: Not applicable.
- **Viscosity**: Not applicable.
- **Other information**
  - **Bulk density**: 960 - 1050 kg/m³
  - **Particle size**: Varies.
  - **VOC (Weight %)**: 0 %

### Reactivity
Not available.

**Chemical stability**
Material is stable under normal conditions.

**Possibility of hazardous reactions**
Hazardous polymerization does not occur.
Conditions to avoid
Contact with incompatible materials.
Incompatible materials
Strong oxidizing agents.
Hazardous decomposition products
Calcium oxides. Sulfur oxides.

Information on likely routes of exposure
Ingestion
Ingestion may cause irritation and stomach discomfort.

Inhalation
Inhalation of dusts may cause respiratory irritation. Prolonged and repeated exposure to airborne respirable crystalline silica can cause silicosis and/or lung cancer.

Skin contact
Dust can irritate skin.

Eye contact
Dust can irritate eyes.

Symptoms related to the physical, chemical and toxicological characteristics
Dust may irritate eyes, skin, throat and upper respiratory system and cause coughing.

Information on toxicological effects
Low hazard.

Acute toxicity
Not expected to be a hazard under normal conditions of intended use.

Skin corrosion/irritation
Dust can cause skin irritation.

Serious eye damage/eye irritation
Dust can cause eye irritation.

Respiratory or skin sensitization
Not a sensitizer.

Skin sensitization
Not expected to be a skin sensitizer.

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
Repeated and prolonged exposure to high levels of respirable crystalline silica may cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity
Class C Fly ash (CAS 68131-74-8)
3 Not classifiable as to carcinogenicity to humans.

Crystalline silica (Quartz) (CAS 14808-60-7)
1 Carcinogenic to humans.

NTP Report on Carcinogens
Crystalline silica (Quartz) (CAS 14808-60-7)
Known To Be Human Carcinogen.

Reproductive toxicity
Not expected to be a reproductive hazard.

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
Not classified. For detailed information, see section 16.

Aspiration hazard
Due to the physical form of the product it is not an aspiration hazard.

Chronic effects
Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to the lung disease known as silicosis. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.
12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)</td>
<td>Aquatic fish</td>
<td>LC50 Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>No data is available on the degradability of this product.</td>
<td></td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Bioaccumulation is not expected.</td>
<td></td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>None expected.</td>
<td></td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Disposal instructions
Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

Local disposal regulations
Dispose of in accordance with local regulations.

Hazardous waste code
Not regulated.

Waste from residues / unused products
Dispose of in accordance with local regulations.

Contaminated packaging
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT
Not regulated as a hazardous material by DOT.

ADR
Not regulated as a dangerous good.

IATA
Not regulated as a dangerous good.

IMDG
Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
This product is a solid. Therefore, bulk transport is governed by IMS- BC code.

15. REGULATORY INFORMATION

Saudi Arabian Inventory of Chemical Substance:
- CAS# 65997-15-1 Portland Cement
- CAS# 68131-74-8 Class C Fly ash
- CAS# 13397-24-5 Calcium sulfate dihydrate
- CAS# 93763-70-3 Perlite
- CAS# 65997-17-3 Continuous filament glass fiber
- CAS# 14808-60-7 Crystalline silica (Quartz)

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date
1-September-2019

Revision date
1-February-2023

Version #
02

Further information
Crystalline silica: Raw materials in this product may contain respirable crystalline silica. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

The International Agency for Research on Cancer (IARC) in June, 1987, categorized continuous filament glass fibers as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament glass fiber as a possible, probable, or confirmed cancer causing material. The ACGIH has established a TLV (Threshold Limit Value or recommended exposure limit) for continuous filament glass fiber of 1 fiber per cubic centimeter of air for respirable fibers and 5 mg per cubic meter of air for inhalable glass fiber dust.
These levels were established to prevent mechanical irritation of the upper airways. IARC, NTP (US National Toxicology Program) and OSHA (US Occupational Safety and Health Administration) do not list continuous filament glass fibers as a carcinogen.

As manufactured, continuous filament glass fibers in this product are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards.

**NFPA Ratings:**
- Health: 1
- Flammability: 0
- Physical hazard: 0
- Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Abbreviations and acronyms**

**Disclaimer**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) IARC: International Agency for Research on Cancer

TWA: Time Weighted Average
PEL: Permissible Exposure Limit

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.