USG Durock® Cement Board

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 restrictionsUse in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier USG Middle East Ltd

Distributor information/Company name 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

Website: https://www.usgboral.com/en_me/

2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsSkin corrosion/irritationCategory 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.

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Storage Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal Dispose of in accordance with local regulations.

None known

Hazard(s) not otherwise classified (HNOC)

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|---------------------------------|------------|------|
| Portland Cement | 65997-15-1 | < 50 |
| Class C Fly ash | 68131-74-8 | < 15 |
| Calcium sulfate dihydrate | 13397-24-5 | < 10 |
| (alternative CAS 10101-41-4) | | |
| Perlite | 93763-70-3 | <10 |
| Continuous filament glass fiber | 65997-17-3 | <5 |
| Impurities | | |
| Chemical name | CAS number | % |
| Crystalline silica (Quartz) | 14808-60-7 | <0.5 |

Composition comments

All concentrations are in percent by weight unless ingredient is a gas.

Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.5%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.

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 contactContact with dust: Rinse area with plenty of water. Get medical attention if irritation

develops or persists.

Eye contact Dust in eyes: Flush with cold tap water for at least 15 minutes. If irritation persists,

seek medical attention immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

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

coughing.

Indication of immediate medical

attention and special treatment needed

General information

acute and delayed

Provide general supportive measures and treat symptomatically. Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

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

Unsuitable extinguishingNot applicable.mediaNot a fire hazard.Specific hazards arising fromNot a fire hazard.

the chemical

Special protective actions for

fire fighters

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.

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Fire fighting equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Methods and materials for containment and cleaning up Environmental precautions

See Section 8 of the SDS for Personal Protective Equipment.

No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.

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

Value

Type

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 practices.

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.

8. Exposure controls/personal protection

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

Components

| Components | туре | value | |
|--|-------|--------------|----------------------------|
| Calcium sulfate dihydrate (alternative | PEL | 5 mg/m3 | Respirable fraction. |
| CAS 10101-41-4) (CAS 13397-24-5) | | | |
| | | 15 mg/m3 | Total dust. |
| Portland Cement (CAS 65997-15-1) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| US. OSHA Table Z-3 (29 CFR | | | |
| 1910.1000) | | | |
| Components | Туре | Value | Form |
| Class C Fly ash (CAS 68131-74-8) | TWA | 0.8 mg/m3 | |
| | | 20 mppcf | |
| Portland Cement (CAS 65997-15-1) | TWA | 50 mppcf | |
| Impurities | Туре | Value | Form |
| Crystalline silica (Quartz) | TWA | 0.3 mg/m3 | Total dust. |
| (CAS 14808-60-7) | 1 *** | 0.5 mg/m3 | Respirable. |
| (CAS 14606-00-7) | | 2.4 mppcf | Respirable. |
| US. ACGIH Threshold Limit Values | | 2.4 1110001 | кезрітаріе. |
| Components | Туре | Value | Form |
| Calcium sulfate dihydrate (alternative | - 7/1 | 10 mg/m3 | Respirable fraction. |
| CAS 10101-41-4) (CAS13397-24-5) | TWA | 3, | |
| Continuous filament glass | TWA | 1 fibers/cm3 | Respirable fibers (length |
| fiber (CAS 65997-17-3) | | | > 5µm & aspect ratio ≥3:1) |
| | | 5 mg/m3 | Inhalable fraction. |
| Portland Cement (CAS 65997-15-1) | TWA | 1 mg/m3 | Respirable fraction. |
| Impurities | Туре | Value | Form |
| Crystalline silica (Quartz) | TWA | 0.025 mg/m3 | Respirable fraction. |
| (CAS 14808-60-7) | | | |

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| Components | Туре | Value | Form |
|--|------|--------------|--------------------------|
| Calcium sulfate dihydrate (Alternative | TWA | 5 mg/m3 | Respirable. |
| CAS 10101-41-4) (CAS13397-24-5) | | | |
| | TWA | 10 mg/m3 | Stable |
| Class C Fly ash (CAS 68131-74-8) | | 6 mg/m3 | |
| Continuous filament glass fiber (CAS | | | |
| 65997-17-3) | TWA | 3 fibers/cm3 | Respirable fibers (≤ 3.5 |
| Continuous filament glass | | | μm in diameter & ≥ 10 μm |
| fiber (CAS 65997-17-3) | | | in length) |
| | | 5 mg/m3 | Fiber, Total |
| | | 5 mg/m3 | Respirable. |
| | TWA | 10 mg/m3 | Total |
| Perlite (CAS 93763-70-3) | | 5 mg/m3 | Respirable. |
| Portland Cement (CAS 65997-15-1) | TWA | 10 mg/m3 | Total |
| Impurities | Туре | Value | Form |
| Crystalline silica (Quartz) | TWA | 0.05 mg/m3 | Respirable dust. |
| (CAS 14808-60-7) | | | |

Biological limit values

Appropriate engineering

controls

Other

Individual protection measures, such as personal protective equipment

Skin protection

Eye/face protection

Hand protection

Respiratory protection

Thermal hazards General hygiene considerations

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

Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

Wear approved safety goggles.

It is a good industrial hygiene practice to minimize skin contact. For prolonged or

repeated skin contact use suitable protective gloves.

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

None.

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.

9. Physical and chemical properties

Appearance

Physical state Solid. Form Board. Color Gray.

Odor Low to no odor. **Odor threshold** Not applicable.

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Melting point/freezing point Not applicable. Initial boiling point and boiling range Not applicable.

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Flash pointNot applicable.Evaporation rateNot 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. Vapor pressure Not applicable. Vapor density Not applicable. Relative density 0.8 - 1.2 (H2O=1) 960 - 1040 kg/m3 Solubility(ies)

Solubility (water)Insoluble.Partition coefficient (n-octanol/water)Not applicable.Auto-ignition temperatureNot applicable.Decomposition temperatureNot applicable.

Viscosity

Other information

Bulk density 60 - 65 lb/ft³

VOC (Weight %) 0 %

10. Stability and reactivity

Reactivity Not available.

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.Conditions to avoidContact with incompatible materials.

Incompatible materialsStrong oxidizing agents.Hazardous decomposition productsCalcium oxides. Sulfur oxides.

11. Toxicological information

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.

Dust can be irritating to skin.

Skin contactDust can be irritating to skin.Eye contactDust can cause eye irritation.

Symptoms related to the physical,

Dust may irritate eyes, skin, throat and upper respiratory system and cause coughing.

characteristics

chemical and toxicological

Information on toxicological effectsLow hazard.

Acute toxicity

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

Skin corrosion/irritationDust can cause skin irritation.Serious eye damage/eyeDust can cause eye irritation.

irritation

Respiratory or skin sensitization

Respiratory 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.

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IARC Monographs. Overall Evaluation of

Carcinogenicity

Class C Fly ash (CAS 68131-74-8)

Crystalline silica (Quartz) (CAS 14808-60-7)

NTP Report on Carcinogens

Crystalline silica (Quartz) (CAS 14808-60-7)

Reproductive toxicity

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure
Aspiration hazard
Chronic effects

3 Not classifiable as to carcinogenicity to humans.

1 Carcinogenic to humans.

Known To Be Human Carcinogen.

Not expected to be a reproductive hazard.

May cause respiratory irritation.

Not classified. For detailed information, see section 16.

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

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.

Components Species Test Results

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Aquatic

Fish LC50 Fathead minnow (Pimephales pro- > 1970 mg/l, 96 hours

melas)

Bioaccumulative potential Bioaccumulation is not expected.

Mobility in soilNo data available.Other adverse effectsNone expected.

13. Disposal considerations

Disposal instructionsDispose in accordance with applicable federal, state, and local regulations. Recycle

Dispose of in accordance with local regulations.

responsibly.

Local disposal regulationsDispose of in accordance with local regulations.

Hazardous waste code Not regulated.

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

products

14. Transport information

Contaminated packaging

DOT

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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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 Revision date

Version #

Furthter information

1-September-2019

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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

NFPA Ratings:

Health: 2

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.

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