



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** DUROCK® Tile Membrane  
**Other means of identification**  
**SDS number** 14000040001  
**Synonyms** Mat  
**Recommended use** Interior Use  
**Recommended restrictions** Use in accordance with manufacturer's recommendations.

### Manufacturer/Importer/Supplier/Distributor information

**Company name** United States Gypsum Company  
**Address** 550 West Adams Street  
Chicago, Illinois 60661-3637  
**Telephone** 1-800-874-4968  
**Website** www.usg.com  
**Emergency phone number** 1-800-507-8899

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Carcinogenicity Category 1A  
Specific target organ toxicity, repeated exposure Category 2 (Lung)  
**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger  
**Hazard statement** May cause cancer. May cause damage to organs (Lung) through prolonged or repeated exposure.

### Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If exposed or concerned: Get medical advice/attention.

**Storage** Store locked up.

**Disposal** Dispose of in accordance with local, state, and federal regulations.

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

## 3. Composition/information on ingredients

### Mixtures

| Chemical name   | CAS number | %      |
|-----------------|------------|--------|
| Class C Fly Ash | 68131-74-8 | > 50   |
| Polypropylene   | 9003-07-0  | < 25   |
| Carbon black    | 1333-86-4  | < 0.15 |

## Impurities

| Chemical name               | CAS number | %     |
|-----------------------------|------------|-------|
| Crystalline silica (Quartz) | 14808-60-7 | < 1.5 |

**Composition comments** Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 1.5%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.

## 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | 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. |
| <b>Skin contact</b>   | Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.  |
| <b>Eye contact</b>  | Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.  |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate throat and respiratory system and cause coughing.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved.   |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Use fire-extinguishing media appropriate for surrounding materials.   |
| <b>Unsuitable extinguishing media</b>                                | Not applicable.   |
| <b>Specific hazards arising from the chemical</b>                    | Not a fire hazard.  |
| <b>Special protective equipment and precautions for firefighters</b> | 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. |
| <b>Fire-fighting equipment/instructions</b>                          | Use standard firefighting procedures and consider the hazards of other involved materials.  |
| <b>Specific methods</b>  | Cool material exposed to heat with water spray and remove it if no risk is involved.  |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

## 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | See Section 8 of the SDS for Personal Protective Equipment.                          |
| <b>Methods and materials for containment and cleaning up</b>               | No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid discharge to drains, sewers, and other water systems.                          |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Cut with scissors or knife to 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. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store away from incompatible materials.  |

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

| Components                   | Type | Value                 |
|------------------------------|------|-----------------------|
| Carbon black (CAS 1333-86-4) | PEL  | 3.5 mg/m <sup>3</sup> |

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

| Impurities                                   | Type | Value                 | Form        |
|--|------|-----------------------|-------------|
| Crystalline silica (Quartz) (CAS 14808-60-7) | TWA  | 0.3 mg/m <sup>3</sup> | Total dust. |
|  |      | 0.1 mg/m <sup>3</sup> | Respirable. |
|  |      | 2.4 mppcf             | Respirable. |

#### US. ACGIH Threshold Limit Values

| Components                   | Type | Value               | Form                |
|------------------------------|------|---------------------|---------------------|
| Carbon black (CAS 1333-86-4) | TWA  | 3 mg/m <sup>3</sup> | Inhalable fraction. |

| Impurities                                   | Type | Value                   | Form                 |
|--|------|-------------------------|----------------------|
| Crystalline silica (Quartz) (CAS 14808-60-7) | TWA  | 0.025 mg/m <sup>3</sup> | Respirable fraction. |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components                   | Type | Value                 |
|------------------------------|------|-----------------------|
| Carbon black (CAS 1333-86-4) | TWA  | 0.1 mg/m <sup>3</sup> |

| Impurities                                   | Type | Value                  | Form             |
|--|------|------------------------|------------------|
| Crystalline silica (Quartz) (CAS 14808-60-7) | TWA  | 0.05 mg/m <sup>3</sup> | Respirable dust. |

#### Biological limit values

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

#### Appropriate engineering controls

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

##### 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.

##### 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 separately from regular wash. Observe any medical surveillance requirements.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.

**Form** Mat.

**Color** Gray.

**Odor** Low to no odor.

**Odor threshold** Not applicable.

|   |                                  |
|---|----------------------------------|
| <b>pH</b>   | Not applicable.                  |
| <b>Melting point/freezing point</b>                 | Not applicable.                  |
| <b>Initial boiling point and boiling range</b>      | Not applicable.                  |
| <b>Flash point</b>                                  | Not applicable.                  |
| <b>Evaporation rate</b>                             | Not applicable.                  |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                  |
| <b>Upper/lower flammability or explosive limits</b> |                                  |
| <b>Flammability limit - lower (%)</b>               | Not applicable.                  |
| <b>Flammability limit - lower (%) temperature</b>   | Not applicable.                  |
| <b>Flammability limit - upper (%)</b>               | Not applicable.                  |
| <b>Flammability limit - upper (%) temperature</b>   | Not applicable.                  |
| <b>Explosive limit - lower (%)</b>                  | Not applicable.                  |
| <b>Explosive limit - lower (%) temperature</b>      | Not applicable.                  |
| <b>Explosive limit - upper (%)</b>                  | Not applicable.                  |
| <b>Explosive limit - upper (%) temperature</b>      | Not applicable.                  |
| <b>Vapor pressure</b>                               | Not applicable.                  |
| <b>Vapor density</b>                                | Not applicable.                  |
| <b>Relative density</b>                             | 0.5 - 1.2 (H <sub>2</sub> O = 1) |
| <b>Solubility(ies)</b>                              |                                  |
| <b>Solubility (water)</b>                           | Insoluble.                       |
| <b>Partition coefficient (n-octanol/water)</b>      | Not applicable.                  |
| <b>Auto-ignition temperature</b>                    | Not applicable.                  |
| <b>Decomposition temperature</b>                    | Not applicable.                  |
| <b>Viscosity</b>                                    | Not applicable.                  |
| <b>Other information</b>                            |                                  |
| <b>Bulk density</b>                                 | 33 - 55 lb/ft <sup>3</sup>       |
| <b>VOC (Weight %)</b>                               | 0 g/l                            |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | Not available.                                 |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.    |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.       |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.           |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                       |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known. |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Ingestion</b>    | Ingestion may cause irritation and stomach discomfort.                              |
| <b>Inhalation</b>   | Airborne dust may irritate throat and upper respiratory system causing coughing.    |
| <b>Skin contact</b> | Under normal conditions of intended use, this material does not pose a skin hazard. |
| <b>Eye contact</b>  | Direct contact with airborne particulates may cause temporary irritation.           |

**Symptoms related to the physical, chemical and toxicological characteristics** Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.

**Information on toxicological effects**

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

**Skin corrosion/irritation** Not a skin irritant.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** No data available, but none expected.

**Skin sensitization** Under normal conditions of intended use, this material does not pose a risk to health.

**Germ cell mutagenicity** No data available, but none expected.

**Carcinogenicity** May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

|  |   |
|--|---|
| Carbon black (CAS 1333-86-4)                 | 2B Possibly carcinogenic to humans.                 |
| Crystalline silica (Quartz) (CAS 14808-60-7) | 1 Carcinogenic to humans.                           |
| Polypropylene (CAS 9003-07-0)                | 3 Not classifiable as to carcinogenicity to humans. |

**NTP Report on Carcinogens**

|  |                               |
|--|-------------------------------|
| Crystalline silica (Quartz) (CAS 14808-60-7) | Known To Be Human Carcinogen. |
|--|-------------------------------|

**Reproductive toxicity** No data available, but none expected.

**Specific target organ toxicity - single exposure** No data available, but none expected.

**Specific target organ toxicity - repeated exposure** May cause damage to organs (Lung) through prolonged or repeated exposure by ingestion.

**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 components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent releases can have a harmful or damaging effect on the environment.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** Bioaccumulation is not expected.

**Mobility in soil** No data available.

**Other adverse effects** None expected.

**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 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** Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations** WARNING: This product contains chemical(s) known to the State of California to cause cancer.

#### US. Massachusetts RTK - Substance List

Carbon black (CAS 1333-86-4)  
Crystalline silica (Quartz) (CAS 14808-60-7)

#### US. New Jersey Worker and Community Right-to-Know Act

Carbon black (CAS 1333-86-4)  
Crystalline silica (Quartz) (CAS 14808-60-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Carbon black (CAS 1333-86-4)  
Crystalline silica (Quartz) (CAS 14808-60-7)

#### US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Carbon black (CAS 1333-86-4)  
Crystalline silica (Quartz) (CAS 14808-60-7)

## International Inventories

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No                     |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 19-May-2014

**Revision date** -

**Version #** 01

**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.

NFPA Ratings:  
Health: 1  
Flammability: 0  
Physical hazard: 0

NFPA Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### NFPA Ratings



### References

1.) International Agency for Research on Cancer (IARC). Volume 93: Carbon Black, Titanium Dioxide, and Talc; (5. Summary of data reported). IARC, 2010. Available at: <http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf>

### Disclaimer

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.