MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name	**Durabond U FTG Grout Series**
MSDS name	Durabond U FTG Grouts - Various Colors
Product name(s) covered	See Section 16 for Product Names Covered.
CAS #	Mixture
Product use	Grouting Cement for Marble and Stone Tiles
Generic description	Grout/Cement
Manufacturer	Bostik, Inc. 211 Boston Street Middleton, MA 01949 USA
24 hour emergency assistance	Telephone: 1-800-227-0332
General assistance	Telephone: 1-978-777-0100
MSDS assistance	Telephone: 1-414-607-1347

2. Hazards Identification

Emergency overview

Exposure to dust may be irritating to eyes, nose, and throat.
Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of Silica dust.

This product contains trace amounts of hexavalent chromium, a skin sensitizer and human carcinogen. Prolonged/repeated exposure may cause severe allergic skin reactions and/or cancer.

Because this product is caustic when wet (pH>12.0), wet product or dry product on moist skin can potentially cause severe irritation and/or irreversible tissue damage due to chemical (caustic) burns.

Potential health effects

Eyes

Dust or powder may irritate eye tissue. Airborne dust may cause immediate or delayed irritation or inflammation. Eye contact with large amounts of dry powder or with wet product can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Skin

Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. Mechanical rubbing may increase skin irritation.

Skin contact may cause an allergic response in some individuals due to trace amounts of chromium (6+) salts. Symptoms can range from a mild rash to severe skin ulcers. Persons already sensitized to hexavalent chromium may experience symptoms after minimal exposure.

Product is caustic when wet (pH >12.0). Exposure of sufficient duration to wet product, or to dry product on moist skin, can cause serious, potentially irreversible tissue damage due to chemical (caustic) burns, including third degree burns.

Inhalation

This product contains free crystalline silica. Prolonged or repeated inhalation of crystalline silica can aggravate lung conditions and lead to silicosis, a seriously disabling and potentially fatal lung disease. Inhalation of free crystalline silica has also been linked to increased occurrence of renal disease and auto immune disorders.

Ingestion

May cause nausea, vomiting, pain, stomach upset, and diarrhea. Ingestion of large quantities may cause chemical burns in the mouth, throat, stomach, and digestive tract.

Target organs

Respiratory tract - Silica can target and damage the lungs.
Some studies show an increased incidence in kidney and end-stage renal disease in individuals exposed to respirable Silica.

Hexavalent chromium can cause skin sensitization and damage.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Silica, Quartz	14808-60-7	30 - 60
Portland Cement	65997-15-1	15 - 40
Iron oxide	1309-37-1	0 - 3
C.I. Pigment Blue 36	68187-11-1	0 - 4
C.I. Pigment Blue 28	1345-16-0	0 - 1
Chromium (III) oxide	1308-38-9	0 - 1
Carbon black	1333-86-4	0 - 2
Gypsum (Ca(SO4).2H2O)	13397-24-5	0 - 2.5
Titanium dioxide	13463-67-7	0.1 - 1

Composition comments Chronic overexposure to Silica can cause chronic lung disease (Silicosis) and/or cancer. Portland Cement contains up to 10 ppm (0.001%) Hexavalent chromium, which is a skin sensitizer and carcinogen.
In its end use form, this product is caustic with a pH >12.0.

Chemical characterization Parts Per Million (ppm) = 0.0001%
mg/kg = 1 ppm (0.0001%)
g/kg = 1000 ppm (0.1%)
Conversion from mg/m3 to ppm: ppm = (mg/m3 / molecular weight in grams) x 24.45

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Get medical attention immediately.

Skin contact Wash affected area with mild soap and water. If irritation persists, get medical attention. Seek medical attention for rash, burns, irritation, dermatitis, and prolonged, unprotected exposures to wet product.

Inhalation Remove to fresh air. Get medical attention immediately for a large dose exposure or if cough or other symptoms develop.

Ingestion Due to the physical nature of this material, ingestion is unlikely to occur. If ingestion of a large amount does occur, get medical attention immediately. Do not induce vomiting unless directed to do so by medical personnel.

Notes to physician Short-term exposure to very large amounts of respirable crystalline silica can cause serious lung inflammation and pulmonary edema, resulting in shortness of breath and low blood oxygen levels. Longer-term exposure may result in nodules of chronic inflammation and scarring in the lungs and chest lymph nodes. Symptoms of long-term exposure may resemble those of chronic obstructive pulmonary disease (COPD).

5. Fire Fighting Measures

Hazardous combustion products Non-combustible, substance itself does not burn.

Extinguishing media

Suitable extinguishing media Use any media suitable for the surrounding fires.

Basic fire fighting procedures Not a fire hazard. This material will not burn. Product is caustic when wet (pH >12.0). Use personal protective equipment to prevent inhalation of airborne product and eye and skin contact with wet or dry product.

Dust explosion hazard None Known

Sensitivity to static discharge None Known

Flash point Non- Flammable

6. Accidental Release Measures

Emergency action

Avoid actions that cause the dry product to become airborne during clean up. Avoid inhalation and contact with eyes and skin. Place spilled material into a container for reuse or proper disposal.

Product is caustic when wet (pH >12.0). Wear appropriate protective equipment as described in Section 8.

Reporting

See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

7. Handling and Storage

Handling

Avoid breathing dusts from this material. Remove dust fines from air or wear recommended respirator.

Avoid contact with skin and eyes.
Promptly remove and launder clothing that is dusty or wet with product.
Thoroughly wash skin after exposure to dry or wet product.

Storage

Store in a clean, dry area. Keep containers closed.

8. Exposure Controls / Personal Protection

Engineering controls

Use local or general ventilation to control airborne dust below applicable exposure limits.

Personal protective equipment

Eye protection

Wear goggles or safety glasses with side shields.
Wear safety goggles to prevent eye contact with dry or wet product. In extremely dusty or unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury.

Skin and body protection

Wear impervious gloves for prolonged contact. Recommended gloves include rubber, neoprene, nitrile or viton. Normal work clothing (long sleeved shirts and long pants) is recommended.
Wear impervious abrasion and alkaline resistant gloves and boots, long sleeved shirt, long pants, safety goggles and other protective clothing as required to prevent skin contact.
Remove clothing and protective equipment that becomes dusty from dry product or saturated with wet product and immediately wash exposed areas.

Respiratory protection

Respiratory protection is not normally required for ambient air concentrations not exceeding the Occupational Exposure Limit. If ventilation is not sufficient to effectively prevent buildup of dusts, wear appropriate NIOSH/MSHA respiratory protection.

9. Physical & Chemical Properties

Target solids	100 %
pH	N/A (pH of wet product is >12.0)
Density	2.78 g/cc
Odor	Slight
Color	Various Colors
Physical state	Powder
Freeze protect	No

10. Chemical Stability & Reactivity Information

Hazardous reactions/decomposition products

Wet product is alkaline (pH >12.0) and is incompatible with acids, ammonia salts, and aluminum metal.

Stability

Stable under normal conditions.

11. Toxicological Information

Chronic effects Chronic overexposure to Silica has been associated with the development of chronic lung disease (Silicosis) and cancer.
Hexavalent chromium can cause skin sensitization, dermatitis, and cancer. Individuals already sensitized to Hexavalent chromium can have an adverse reaction to even small exposures.

12. Ecological Information

Ecotoxicological information No data available for this product.

13. Disposal Considerations

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

Waste disposal Dispose of in compliance with all local, state, and federal regulations.

14. Transport Information

DOT

Not regulated as hazardous goods.

IATA

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.

15. Regulatory Information

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

Federal regulations All components are on the U.S. EPA TSCA Inventory List.

State regulations If this product contains any ingredients listed under California Proposition 65, they will be noted below:

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance		
Carbon black	1333-86-4	Listed: February 21, 2003 Carcinogenic.
Silica, Quartz	14808-60-7	Listed: October 1, 1988 Carcinogenic.
Lead	7439-92-1	Listed: October 1, 1992 Carcinogenic.
Nickel	7440-02-0	Listed: October 1, 1989 Carcinogenic.
Arsenic	7440-38-2	Listed: February 27, 1987 Carcinogenic.
Cobalt	7440-48-4	Listed: July 1, 1992 Carcinogenic.
US - California Proposition 65 - CRT: Listed date/Developmental toxin		
Lead	7439-92-1	Listed: February 27, 1987 Developmental toxin.
US - California Proposition 65 - CRT: Listed date/Female reproductive toxin		
Lead	7439-92-1	Listed: February 27, 1987 Female reproductive toxin.
US - California Proposition 65 - CRT: Listed date/Male reproductive toxin		
Lead	7439-92-1	Listed: February 27, 1987 Male reproductive toxin.

International regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

HMIS Ratings
Health: 3*
Flammability: 0
Physical hazard: 0
Personal protection: X

SARA 311/312 HAZARD CATEGORIES
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

WHMIS status Controlled

WHMIS labeling

WHMIS classification

D2A - Other Toxic Effects-VERY TOXIC
D2B - Other Toxic Effects-TOXIC
E - Corrosive

16. Other Information

Product name(s) covered

D90100 - Durabond U FTG White D-G01
D90200 - Durabond U FTG Haystack D-G07
D90300 - Durabond U FTG Driftwood D-G16
D90500 - Durabond U FTG Bone D-G19
D90600 - Durabond U FTG Seashore D-G20
D90700 - Durabond U FTG Steel D-G22
D90800 - Durabond U FTG Platinum D-G23
D90900 - Durabond U FTG Oyster D-G03
D91000 - Durabond U FTG Ocean Gray D-G05
D91100 - Durabond U FTG Jet Black D-G08
D91200 - Durabond U FTG Biscuit D-G14
D91300 - Durabond U FTG Timber D-G24
D91400 - Durabond U FTG Coffee D-G28
D91500 - Durabond U FTG Storm Gray D-G06
D91700 - Durabond U FTG Chocolate D-G10
D95100 - Durabond U FTG Walnut D-G15
D95300 - Durabond U FTG Camel D-G21
D95800 - Durabond U FTG Sandcastle D-G04
D95900 - Durabond U FTG Wedgewood D-G27
D96000 - Durabond U FTG Quarry Red D-G32
D96100 - Durabond U FTG Easy Blue D-G34
D96200 - Durabond U FTG Mint D-G35
D96800 - Durabond U FTG Sycamore D-G45
D96900 - Durabond U FTG Adobe D-G49
D97000 - Durabond U FTG Birch D-G50
D97400 - Durabond U FTG Buckskin D-G36
D97500 - Durabond U FTG Carnation D-G37
D97600 - Durabond U FTG Gingko D-G38
D97700 - Durabond U FTG Beeswax D-G39
D97800 - Durabond U FTG Raisin D-G40
D97900 - Durabond U FTG Cheyenne D-G41
D98000 - Durabond U FTG Rosa Roja D-G42
D98100 - Durabond U FTG Forest Hills D-G43
D98200 - Durabond U FTG Cobblestone D-G44
D98300 - Durabond U FTG Soapstone D-G46
D98400 - Durabond U FTG Acorn D-G47
D98500 - Durabond U FTG Sundance D-G48

Disclaimer

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Further information	Any characters following an individual item number are just designations for the various types of packaging that are available for this product. For example, a product "G12345-XX" is item number "G12345" with a packaging designation of "XX". These characters do not indicate a different product nor a different regulatory, health, safety and/or environmental status. This document covers the item numbers listed above for all of their packaging types.
Issue date	11/14/2008
Prepared by	Pam Larsen
Supercedes	02/20/2007
This data sheet contains changes from the previous version in section(s):	Disposal Considerations: Waste disposal