

#### **MATERIAL SAFETY DATA SHEET**

#### **1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

Product name	CTG Grouts - Various Colors
Product name(s) covered	See Section 16 for Product Names Covered.
MSDS name	CTG Grouts - Various Colors
CAS number	Mixture
Generic description	Hydroment Grout/Cement - All Colors
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. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous component(s)	CAS #	Percent
Silica, Quartz	14808-60-7	40 - 70
Portland Cement	65997-15-1	15 - 40
Iron oxide	1309-37-1	0 - 4
Titanium dioxide	13463-67-7	0 - 4
C.I. Pigment Blue 36	68187-11-1	0 - 3
C.I. Pigment Blue 28	1345-16-0	0 - 2.5
Gypsum (Ca(SO4).2H2O)	13397-24-5	0 - 2.5
Carbon black	1333-86-4	0 - 1
Chromium (III) oxide	1308-38-9	0 - 1
Composition comments	Chronic overexposure to Silica can cause chronic lung disease (Silicosis Portland Cement contains up to 10 ppm (0.001%) Hexavalent chromium sensitizer and carcinogen.	

Chemical characterizationIn its end use form, this product is caustic with a pH >12.0.Chemical characterizationParts Per Million (ppm) = 0.0001%<br/>mg/kg = 1 ppm (0.0001%)<br/>g/kg = 1000 ppm (0.1%)<br/>Conversion from mg/m3 to ppm: ppm = (mg/m3 / molecular weight in grams) x 24.45

#### **3. 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

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	
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.
Eyes	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.
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.

## 4. FIRST AID MEASURES

First aid	
Skin	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.
Еуе	Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Get medical attention immediately.
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	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 mechanical impact	None Known
Sensitivity to static discharge	None Known

# 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.

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 & 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 CONT	ROLS / PERSONAL PROTECTION
Engineering controls	Use local or general ventilation to control airborne dust below applicable exposure limits.
Eye protection	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 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.
Exposure limits	
ACGIH - Threshold Limits Value	es - Time Weighted Averages (TLV-TWA)
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Carbon black Chromium (III) oxide Iron oxide	1345-16-0       0.02 mg/m3 TWA         68187-11-1       0.02 mg/m3 TWA         1333-86-4       3.5 mg/m3 TWA         1308-38-9       0.5 mg/m3 TWA (as Cr)         1309-37-1       5 mg/m3 TWA (dust and fume, as Fe)
Portland Cement	65997-15-1 10 mg/m3 TWA (particulate matter containing no asbestos and
Silica, Quartz Titanium dioxide NIOSH - Pocket Guide - TWAs	<u>&lt; 1% crystalline silica)</u> <u>14808-60-7</u> <u>0.05 mg/m3 TWA (respirable fraction)</u> <u>13463-67-7</u> <u>10 mg/m3 TWA</u>
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Carbon black	1345-16-00.05 mg/m3 TWA (dust and fume)68187-11-10.05 mg/m3 TWA (dust and fume)1333-86-43.5 mg/m3 TWA; 0.1 mg/m3 TWA (as PAH, carbon black in presence of polycyclic aromatic hydrocarbons)
Chromium (III) oxide Gypsum (Ca(SO4).2H2O) Iron oxide Portland Cement Silica, Quartz	1308-38-9       0.5 mg/m3 TWA (as Cr)         13397-24-5       10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)         1309-37-1       5 mg/m3 TWA (dust and fume, as Fe)         65997-15-1       10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)         14808-60-7       0.05 mg/m3 TWA (respirable dust)
OSHA - Final PELs - Time Weig	
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Carbon black Chromium (III) oxide Iron oxide Portland Cement Titanium dioxide <b>OSHA - Vacated PELs - TWAs</b>	1345-16-0       0.1 mg/m3 TWA (dust and fume)         68187-11-1       0.1 mg/m3 TWA (dust and fume)         1333-86-4       3.5 mg/m3 TWA         1308-38-9       0.5 mg/m3 TWA (as Cr)         1309-37-1       10 mg/m3 TWA         65997-15-1       15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)         13463-67-7       15 mg/m3 TWA (total dust)
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Carbon black Chromium (III) oxide Gypsum (Ca(SO4).2H2O) Iron oxide Portland Cement Silica, Quartz Titanium dioxide	1345-16-0       0.05 mg/m3 TWA (dust and fume)         68187-11-1       0.05 mg/m3 TWA (dust and fume)         1333-86-4       3.5 mg/m3 TWA         1308-38-9       0.5 mg/m3 TWA (as Cr)         13397-24-5       15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)         1309-37-1       10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)         14808-60-7       0.1 mg/m3 TWA (total dust)         13463-67-7       10 mg/m3 TWA (total dust)

# 9. PHYSICAL & CHEMICAL PROPERTIES

Percent volatile	0 %
рН	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. STABILITY & REACTIVITY**

	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**

Toxicological data LD50	If any toxicological data is available, it will be listed below:
Toxicology Data - Selected	LD50s and LC50s
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Carbon black Iron oxide Silica, Quartz Titanium dioxide	1345-16-0       Oral LD50 Rat: 6171 mg/kg         68187-11-1       Oral LD50 Rat: 6171 mg/kg         1333-86-4       Oral LD50 Rat: >15400 mg/kg; Dermal LD50 Rabbit: >3 g/kg         1309-37-1       Oral LD50 Rat: >10000 mg/kg         14808-60-7       Oral LD50 Rat: >10000 mg/kg         13463-67-7       Oral LD50 Rat: >10000 mg/kg
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.
Carcinogenicity	If this product contains any carcinogens, they will be noted below:
IARC - Group 1 (Carcinogen	ic to Humans)
Silica, Quartz	14808-60-7 <u>Monograph 68, 1997 (listed under Crystalline silica, inhaled in</u> the form of guartz or cristobalite from occupational sources)
IARC - Group 2B (Possibly (	Carcinogenic to Humans)
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Carbon black <b>NIOSH - Pocket Guide - Pot</b> e	1345-16-0 <u>Monograph 52, 1991 (Evaluated as a group)</u> 68187-11-1 <u>Monograph 52, 1991 (Evaluated as a group)</u> 1333-86-4 <u>Monograph 65, 1996</u> ential Occupational Carcinogens
Carbon black	1333-86-4 <u>potential occupational carcinogen (in presence of polycyclic</u> aromatic hydrocarbons)
Silica, Quartz Titanium dioxide <b>OSHA - Hazard Communica</b>	14808-60-7 <u>potential occupational carcinogen</u> 13463-67-7 <u>potential occupational carcinogen</u> tion Carcinogens
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Carbon black Silica, Quartz	1345-16-0 <u>Present</u> 68187-11-1 <u>Present</u> 1333-86-4 <u>Present</u> 14808-60-7 <u>Present</u>

#### **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

This product as supplied is not considered a hazardous waste under RCRA. Dispose of in compliance with all local, state, and federal regulations.

#### **14. TRANSPORT INFORMATION**

#### **Department of Transportation (DOT) Requirements**

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

Not regulated as dangerous goods.

# **15. REGULATORY INFORMATION**

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.Federal regulationsAll components are on the U.S. EPA TSCA Inventory List.

#### CERCLA/SARA - Section 313 - Emission Reporting

CERCLA/SARA - Section 313 - E	
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Chromium (III) oxide	1345-16-0       0.1 percent de minimis concentration         68187-11-1       0.1 percent de minimis concentration         1308-38-9       1.0 percent de minimis concentration (Chemical Category N090)
State regulations	If this product contains any ingredients listed under California Proposition 65, they will be noted below:
California - Proposition 65 - Car	cinogens List
C.I. Pigment Blue 28 C.I. Pigment Blue 36 Carbon black	1345-16-0 <u>carcinogen, initial date 7/1/92 (powder)</u> 68187-11-1 <u>carcinogen, initial date 7/1/92 (powder)</u> 1333-86-4 <u>carcinogen, initial date 2/21/03 (airborne, unbound particles of</u>
Lead Nickel	respirable size) 7439-92-1 <u>carcinogen, initial date 10/1/92 Trace impurity</u> 7440-02-0 <u>carcinogen, initial date 10/1/89 Trace impurity</u> 14464-46-1 carcinogen, initial date 10/1/88 (airborne particles of respirable
Silica, cristobalite Silica, Quartz	14808-60-7 <u>carcinogen, initial date 10/1/88 (airborne particles of respirable</u> size) size)
California - Proposition 65 - Dev	
Lead California - Proposition 65 - Rep	7439-92-1 developmental toxicity, initial date 2/27/87 Trace impurity
Lead California - Proposition 65 - Rep	7439-92-1 <u>female reproductive toxicity, initial date 2/27/87 Trace impurity</u> productive Toxicity - Male
Lead	7439-92-1 male reproductive toxicity, initial date 2/27/87 Trace impurity
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 WHMIS labeling	Controlled
WHMIS classification	D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC E - Corrosive
16. OTHER INFORMA	TION

G00624 - CTG Cashmere H178 G00625 - CTG Sand Beige H148	

G00611 - CTG White H152

G00622 - CTG Latte H192 G00623 - CTG Straw Amber

G00620 - CTG Copper Canyon H140 G00621 - CTG Summer Wheat H150

Product name(s) covered

G00627 - CTG Flash Walnut H141 G00628 - CTG Brown H137 G00641 - CTG Brick H136 G00649 - CTG Smoke Wood H149 G00661 - CTG Misty Gray H144 G00664 - CTG Natural H146 G00666 - CTG Shadow H195 G00668 - CTG French Gray H142 G00670 - CTG Antque White H135 G00672 - CTG Champagne H138 G00673 - CTG Mobe Pearl H145 G00674 - CTG Bamboo H179 G00675 - CTG Taupe H151 G00676 - CTG Kahlua Cream H143 G00677 - CTG Peaches & Cream H147 G00684 - CTG Char Black H139 G96108 - CTG Cameo H156 G96113 - CTG Cranes Beach H159 G96114 - CTG Classic Bone H158 G96115 - CTG Bright White H177 G96116 - CTG Buff H188 G96265 - CTG Almond H153 G96284 - CTG Jamoca H162 G96289 - CTG Portabella H184 G96290 - CTG Sedona H190 G96291 - CTG Khaki H187 G96329 - CTG Sea Breeze H174 G96331 - CTG Anastasia Emerald H169 G96332 - CTG Myst H165 G96333 - CTG Teal H176 G96334 - CTG Aspen Mint H154 G96335 - CTG Essex Green H170 G96337 - CTG Avocado H180 G96338 - CTG Woodlands H194 G96435 - CTG Blush H155 G96446 - CTG Nordic Orchid H182 G96447 - CTG Rousillion Red H186 G96448 - CTG Twilight H193 G96514 - CTG Panache Blue H173 G96522 - CTG Heron Blue H171 G96525 - CTG Stormy Blue H175 G96526 - CTG Midnight Blue H172 G96527 - CTG Ice Blue H161 G96528 - CTG Windsor H191 G96635 - CTG Delorean Gray H160 G96648 - CTG Silver Bullet H168 G96741 - CTG Linen H163 G96745 - CTG Plum H166 G96747 - CTG Sandstone H167 G96749 - CTG Moon Dust H164 G96755 - CTG Caribbean Coral H157 G96756 - CTG Sand Dune H181 G96757 - CTG Alpine White H183 G96758 - CTG Ivory Palace H185 G96759 - CTG Alabaster H189

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.
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Prepared by	Pam Larsen
Supercedes	06/27/2006