


# MATERIAL SAFETY DATA SHEET

 <p><i>Engineered Concrete Performance</i></p>	Product Name	MSDS NO. <b>138</b>
	<b>Flat Out™</b>	Revision Date
	Product Use	<b>8/31/2011</b>
	Pre-Cast countertop Mix	<b>Page 1 of 4</b>

## ===== SECTION I – PRODUCT IDENTIFICATION =====

NAME: BUTTERFIELD COLOR, INC  
 ADDRESS: 625 W ILLINOIS AVE  
 AURORA, IL 60506  
 EMERGENCY PHONE: 800-424-9300  
 INFORMATION PHONE: 800-282-3388  
 PRODUCT NAME: Flat Out™ Countertop Mix

## ===== SECTION II – HAZARDS IDENTIFICATION =====

EMERGENCY OVERVIEW: ODORLESS, NON-COMBUSTIBLE WHITE POWDER.  
 WARNING STATEMENT A SINGLE SHORT-TERM EXPOSURE TO THE DRY POWDER IS NOT LIKELY TO CAUSE SERIOUS HARM. MAY CAUSE EYE IRRITATION. EXPOSURE TO WET MIXTURE CAN CAUSE SERIOUS, POTENTIALLY IRREVERSIBLE (SKIN OR EYE) TISSUE DESTRUCTION IN THE FORM OF CHEMICAL (CAUSTIC) BURNS. THE SAME TYPE OF TISSUE DESTRUCTION CAN OCCUR IF WET OR MOIST AREAS OF THE BODY ARE EXPOSED FOR SUFFICIENT DURATION TO THE DRY POWDER.  
 POTENTIAL HEALTH EFFECTS POTENTIAL HEALTH EFFECTS MAY VARY DEPENDING UPON THE DURATION AND DEGREE OF EXPOSURE.  
 EYE CONTACT: EXPOSURE TO AIRBORNE DUST MAY CAUSE IMMEDIATE OR DELAYED IRRITATION OR INFLAMMATION. EYE CONTACT WITH LARGER AMOUNTS OF DRY POWDER OR SPLASHES OF WET POWDER MAY CAUSE EFFECTS RANGING FROM MODERATE EYE IRRITATION TO ABRASION OF THE CORNEA OR CHEMICAL BURNS AND BLINDNESS.  
 SKIN CONTACT: EXPOSURE TO DRY POWDER MAY CAUSE DRYING OF THE SKIN WITH CONSEQUENT MILD IRRITATION OR MORE SIGNIFICANT EFFECTS ATTRIBUTABLE TO AGGRAVATION OF OTHER CONDITIONS. DRY POWDER CONTACTING WET SKIN OR EXPOSURE TO MOIST OR WET POWDER MAY CAUSE MORE SEVERE SKIN EFFECTS INCLUDING THICKENING, CRACKING OR FISSURING OF THE SKIN. PROLONGED EXPOSURE CAN CAUSE SEVERE SKIN DAMAGE. SOME INDIVIDUALS MAY EXHIBIT AN ALLERGIC RESPONSE UPON EXPOSURE TO POWDER.  
 INHALATION: INHALATION EXPOSURE TO SILICA (QUARTZ) MAY CAUSE DELAYED LUNG INJURY INCLUDING SILICOSIS, A DISABLING AND POTENTIALLY FATAL LUNG DISEASE, AND/OR CAUSE OR AGGRAVATE OTHER LUNG DISEASES OR CONDITIONS.  
 INGESTION: INTERNAL DISCOMFORT OR ILL EFFECTS ARE POSSIBLE IF LARGE QUANTITIES ARE SWALLOWED.  
 MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: THE CONDITION OF INDIVIDUALS WITH LUNG DISEASE (E.G., BRONCHITIS, EMPHYSEMA, AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE) CAN BE AGGRAVATED BY EXPOSURE.


## ===== SECTION III – HAZARDOUS INGREDIENTS =====

HAZARDOUS COMPONENTS	CAS NO.	PEL (OSHA) mg/M3	TLV (ACGIH) mg/M3	NIOSH REL mg/M3
SILICA, QUARTZ, SiO <sub>2</sub>	14808-60-7	10/% SiO <sub>2</sub> +2	.1	.05
CALCIUMSULFOALUMINATECEMENT	960375-09-1	5 (RESPIRABLE DUST)	10 (TOTAL DUST)	10
PORTLAND CEMENT	65997-15-1	NUISANCE DUST	NUISANCE DUST	NUISANCE DUST
GLASS OXIDE	65997-17-3	NUISANCE DUST	NUISANCE DUST	NUISANCE DUST
NUISANCE DUSTS	--	15 (TOTAL DUST)	10	10 (TOTAL DUST)
		5 (RESPIRABLE DUST)	3 (RESPIRABLE DUST)	5 (RESPIRABLE DUST)

## ===== SECTION IV – FIRST AID MEASURES =====

IF INHALED: MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF VICTIM IS NOT BREATHING. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT.  
 IF ON SKIN: IMMEDIATELY FLUSH SKIN WITH RUNNING WATER FOR AT LEAST 20 MINUTES.  
 IF IN EYES: IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 20 MINUTES. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST.  
 IF SWALLOWED: RINSE MOUTH. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.  
 GENERAL INFORMATION: CALL 911 OR EMERGENCY MEDICAL SERVICE. ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, TAKE PRECAUTIONS TO PROTECT THEMSELVES AND PREVENT SPREAD OF CONTAMINATION.

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## ===== SECTION V – FIRE FIGHTING MEASURES =====

EXTINGUISHING MEDIA: LARGE FIRE: WATER SPRAY, FOG OR REGULAR FOAM.  
 SMALL FIRES: DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM.

UNSUITABLE EXTINGUISHING MEDIA: NO DATA AVAILABLE

FIRE FIGHTING PROCEDURES: LARGE FIRES: MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. DO NOT SCATTER SPILLED MATERIAL WITH HIGH PRESSURE WATER STREAMS. DIKE FIRE-CONTROL WATER FOR LATER DISPOSAL.

UNUSUAL FIRE AND EXPLOSION NO DATA AVAILABLE

HAZARDS:

HAZARDOUS COMBUSTION NO DATA AVAILABLE

PRODUCTS:

PROTECTION OF FIREFIGHTERS: WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA). STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING WILL ONLY PROVIDE LIMITED PROTECTION.

## ===== SECTION VI – ACCIDENTAL RELEASE MEASURES =====

PERSONAL PRECAUTIONS: DO NOT TOUCH OR WALK THROUGH ANY SPILLED MATERIAL.

EMERGENCY PROCEDURES: KEEP UNAUTHORIZED PERSONNEL AWAY.

ENVIRONMENTAL LARGE SPILLS: PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.

PRECAUTIONS: AVOID GENERATING DUST.

CONTAINMENT/CLEAN-UP MEASURES: SMALL DRY SPILLS: WITH CLEAN SHOVEL PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER LOOSELY; MOVE CONTAINERS FROM SPILL AREA. LARGE SPILLS: COVER POWDER SPILL WITH PLASTIC SHEET OR TARP TO MINIMIZE SPREADING. DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL.

PROHIBITED MATERIALS: NO DATA AVAILABLE

## ===== SECTION VII – HANDLING AND STORAGE =====

HANDLING: DO NOT USE IN AREAS WITHOUT ADEQUATE VENTILATION.


STORAGE: VENTILATE ENCLOSED AREAS. KEEP CONTAINER CLOSED.

SPECIAL PACKAGING NO DATA AVAILABLE

MATERIALS:

INCOMPATIBLE MATERIALS OR IGNITION SOURCES: NO DATA AVAILABLE

## ===== SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION =====

PICTOGRAMS: 

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR SAFETY GOGGLES.

HAND PROTECTION: APPROPRIATE GLOVES


BODY PROTECTION: SUITABLE CLOTHING TO MINIMIZE SKIN CONTACT RECOMMENDED.

RESPIRATORY PROTECTION: FOR LIMITED EXPOSURE USE AN N95 DUST MASK. FOR PROLONGED EXPOSURE USE AN AIR-PURIFYING RESPIRATOR WITH HIGH EFFICIENCY PARTICULATE (HEPA) AIR FILTERS. FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134 OR EUROPEAN STANDARD EN 149. USE A NIOSH/MSHA OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR IF EXPOSURE LIMITS ARE EXCEEDED OR SYMPTOMS ARE EXPERIENCED.

GENERAL INDUSTRIAL CONSIDERATIONS: WASH HANDS BEFORE EATING.

ENGINEERING MEASURES/ CONTROLS: DILUTION VENTILATION. ADEQUATE VENTILATION SYSTEMS AS NEEDED TO CONTROL CONCENTRATIONS OF AIRBORNE CONTAMINANTS BELOW APPLICABLE THRESHOLD LIMIT VALUES.

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## EXPOSURE LIMITS/GUIDELINES

HAZARDOUS COMPONENTS	RESULT	ACGIH	NIOSH	OSHA
		mg/M3	mg/M3	mg/M3
SILICA, QUARTZ, SiO <sub>2</sub> (14808-60-7)	TWAs	10 TWAEV (containing no asbestos <1% crystalline silica, total dust)	10 TWA (TOTAL DUST) 5 TWA (respirable dust)	15 TWA (TOTAL DUST) 5 TWA (respirable fraction)
CALCIUM SULFOALUMINATE CEMENT (90375-09-1)		10 TWAEV	10 TWA (TOTAL DUST) 5 TWA (respirable dust)	NOT ESTABLISHED
PORTLAND CEMENT (65997-15-1)	TWAs	.025 TWAEV (respirable fraction)	.05 TWA (respirable dust)	NOT ESTABLISHED

### EXPOSURE CONTROL NOTATIONS

#### ACGIH

SILICA, QUARTZ, SiO<sub>2</sub> (14808-60-7): CARCINOGENS (A4 – NO CLASSIFIABLE AS A HUMAN CARCINOGEN)

PORTLAND CEMENT (65997-15-1): CARCINOGENS (A2 – SUSPECTED HUMAN CARCINOGEN)

### EXPOSURE LIMITS SUPPLEMENTAL

#### OSHA

SILICA, QUARTZ, SiO<sub>2</sub> (14808-60-7): MINERAL DUSTS: ((30)/(% SiO<sub>2</sub>+2) mg/m<sup>3</sup> TWA, total dust; (250)/(% SiO<sub>2</sub>+5) mppcf TWA, respirable fraction; (10)/(% SiO<sub>2</sub>+2) mg/m<sup>3</sup> TWA, respirable fraction)

PORTLAND CEMENT (65997-15-1): MINERAL DUSTS: (50 mppcf TWA (<1% crystalline silica))

#### ACGIH

SILICA, QUARTZ, SiO<sub>2</sub> (14808-60-7): TLV BASIS – CRITICAL EFFECTS: (lung cancer; pulmonary fibrosis)

PORTLAND CEMENT (65997-15-1): TLV BASIS – CRITICAL EFFECTS: (pulmonary function; respiratory symptoms; asthma)

#### Key to abbreviations

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

ACGIH = American Conference on Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

## ===== SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES =====

VAPOR PRESSURE (MM Hg)

NOT APPLICABLE

VAPOR DENSITY (AIR = 1)

NOT DETERMINED

SPECIFIC GRAVITY (WATER = 1)

>1

EVAPORATION RATE (WATER = 1)

NOT DETERMINED

SOLUBILITY IN WATER

SLIGHTLY SOLUBLE

MELTING POINT

NOT APPLICABLE

PHYSICAL STATE

POWDER

APPEARANCE AND ODOR

WHITE, NO ODOR

## ===== SECTION X – STABILITY AND REACTIVITY =====

STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS, UNINTENTIONAL CONTACT WITH WATER


HAZARDOUS POLYMERIZATION: WILL NO OCCUR.

## ===== SECTION XI – TOXICOLOGICAL INFORMATION =====

COMPONENT NAME	CONCENTRATION	CAS	DATA
SILICA, QUARTZ, SiO <sub>2</sub>	40-70%	14808-60-7	ACUTE TOXICITY: ORL-RAT TDLo:120 gm/kg; IHL-HMN TCLo:16 mppcf/8h/17.9Y-I: IHL-RAT TCLo:25 mg/m <sup>3</sup> /5D-I; IHL-RAT TCLo:58 mg/m <sup>3</sup> /13W-I; IHL-RAT TCLo:108 mg/m <sup>3</sup> /6H/3D-I; TUMORIGIN/CARCINOGEN: IHL-RAT TCLo:50 mg/m <sup>3</sup> /6H/71W-I

Key to abbreviations

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TC = Toxic Concentrations TD = Toxic Dose

## ===== SECTION XII – ECOLOGICAL INFORMATION =====

NO RECOGNIZED UNUSUAL TOXICITY TO PLANTS OR ANIMALS.

## ===== SECTION XIII – DISPOSAL CONSIDERATIONS =====

PRODUCT: DISPOSE OF CONTENT AND/OR CONTAINER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

PACKAGING: DISPOSE OF CONTENT AND/OR CONTAINER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

## ===== SECTION XIV – TRANSPORT INFORMATION =====

DOT – UNITED STATES – DEPARTMENT OF TRANSPORTATION

SHIPPING NAME: NOT REGULATED

TDG – CANADA – TRANSPORTATION OF DANGEROUS GOODS

SHIPPING NAME: NOT REGULATED

IMO-IMDG – INTERNATIONAL MARITIME TRANSPORT

SHIPPING NAME: NOT REGULATED

AND – EUROPE TRANSPORT OF DANGEROUS GOODS BY ROAD/INLAND WATERWAY

SHIPPING NAME: NOT REGULATED

IATA – INTERNATIONAL AIR TRANSPORT ASSOCIATION

SHIPPING NAME: NOT REGULATED

ADR – EUROPE TRANSPORT OF DANGEROUS GOODS BY ROAD/INLAND WATERWAY

SHIPPING NAME: NOT REGULATED

RID – EUROPE TRANSPORT OF DANGEROUS GOODS BY RAILWAYS

SHIPPING NAME: NOT REGULATED

## ===== SECTION XV – REGULATORY INFORMATION =====

SARA HAZARD CLASSIFICATIONS

ACUTE, CHRONIC

RISK AND SAFETY PHRASES

R48/20 HARMFUL; DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.

R49 MAY CAUSE CANCER BY INHALATION

S53 AVOID EXPOSURE – OBTAIN SPECIAL INSTRUCTIONS BEFORE USE

### STATE RIGHT TO NOW

COMPONENT	CAS	MA	NJ	PA
SILICA, QUARTZ, SiO <sub>2</sub>	14808-60-7	YES	YES	YES
CALCIUMSULFOALUMINATECEMENT(90375-09-1)		YES	YES	YES
PORTLAND CEMENT	65997-15-1	YES	YES	YES
LIMESTONE	1317-65-3	NO	NO	NO
GLASS OXIDE	65997-17-3	NO	NO	NO

## ===== SECTION XVI – OTHER INFORMATION =====

	HEALTH	FLAMMABILITY	REACTIVITY	PERSONAL PROTECTION
HMIS RATING:	1	0	0	B Safety Glasses, Gloves

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