

**SECTION 1: Identification of the substance/preparation and of the company / undertaking****(a) GHS product identifier**

Benco Buff Stone, Fast Stone, Ortho Stone, Die Stone, Lab  
Plaster, Ortho Plaster

**(e) Emergency phone number**

CHEMTREC 1-800-424-9300

**(b) Other means of identification**

NA

**(c) Recommended use of the chemical and restrictions on use**

For professional dental applications.

**(d) Supplier's details**

Benco Dental Supply  
295 Centerpoint Blvd  
Pittston, PA 18640-0491  
Phone: 1-800-462-3626

**SECTION 2: Hazards identification****(a) GHS classification of the substance/mixture****Substance Name**

1. Undisclosed due to Confidential Business Information
2. Crystalline Silica
  - IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans;
  - NTP National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS):
    - 1- Known to be carcinogen
  - ACGIH American Conference of Governmental Industrial Hygienists: A2 Suspected human carcinogen
  - CAL-65: Listed as Chemical know to the State of California to Cause Cancer

**(b) Label Elements****Precautionary statements**

**IF ON SKIN:** This material hardens and slowly becomes hot when mixed with water. Therefore, it SHOULD NOT be used to make a cast enclosing any part of the body. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb. Direct, prolonged or repeated contact with the skin may cause irritation and rubbing against the skin can result in abrasions.

**IF INHALED:** Dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Persons subject to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation.

**IF SWALLOWED:** Unlikely to occur, but may cause gastric disturbances if swallowed. The materials are non-toxic, however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region.

**IF IN EYES:** Direct Contact can cause mechanical irritation of eyes.

**Hazard Symbol(s)**  
NONE

**Signal Word(s)**  
NONE

**(c) Other hazards which do not result in classification**

ND

**SECTION 3: Composition/information on ingredients****(a) Chemical(s) Identity:****(b) Common Name:**

Undisclosed due to Confidential Business Information  
Crystalline Silica

**(c) CAS No.**

NA  
14808-60-7

**Mixture:****Concentration (Percentage)**

>99%  
<0.05%

**SECTION 4: First-aid measures****(a) Description of first aid measures:**

**IF ON SKIN (or hair):** Rinse with water until free of material to avoid abrasions, then wash skin thoroughly with mild soap and water. May dry skin.

**IF INHALED:** If respiratory symptoms persist, consult physician.

**IF SWALLOWED:** If gastric disturbance occurs, consult physician.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Direct Contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

**(b) Most important symptoms and effects, both acute and delayed:**

**IF INHALED:** Nuisance conditions such as coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation.

**IN EYES:** If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

**(c) Indication of any immediate medical attention and special treatment needed:**

ND

**SECTION 5: Fire-fighting measures****(a) Suitable extinguishing media:**

Water or use extinguishing media appropriate for surrounding fire.

**(b) Special hazards arising from the chemical or mixture:**

None known.

**(c) Special protective equipment and precautions for fire-fighters:**

Wear appropriate personal protective equipment.

**SECTION 6: Accidental release measures****(a) Personal precautions, protective equipment and emergency procedures:**

No special precautions. Wear appropriate personal protective equipment.

**(b) Environmental precautions:**

Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

**(c) Methods and material for containment and cleaning up:**

Remove by dry-sweeping or vacuum. Avoid creating excessive dust. Do not wash down drains since it could plug drains. Wear protective equipment.

**SECTION 7: Handling and storage****(a) Precautions for safe handling:**

This product can release nuisance dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation may occur with prolonged dust exposures.

**(b) Conditions for safe storage, including any incompatibilities:**

Store in a dry area to minimize potential for clumping due to moisture absorption. Dew point conditions or other conditions causing presence of moisture will harden product during storage.

**SECTION 8: Exposure controls/Personal protection****(a) Control parameters:**

Chemical	ACGIH	OSHA
	TLV	PEL TWA
CBI	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> total, 5 mg/m <sup>3</sup> respirable
Crystalline Silica	0.1 mg/m <sup>3</sup> respirable	0.1 mg/m <sup>3</sup> respirable

**(b) Appropriate Engineering Controls:**

Ventilate to keep exposures below TLV requirements of the individual ingredients. General ventilation is expected to be satisfactory. Use local exhaust ventilation if necessary to control dust.

**(c) Individual protection measures:**

**RESPIRATORY:** None required where adequate ventilation conditions exist. In order to meet TLV requirements of individual ingredients and to control dusting conditions, provide general ventilation and local exhaust ventilation. Avoid creating dust. Wear a NIOSH/OSHA approved dust respirator in poorly ventilated areas and/or if TLV requirements of the individual ingredients is exceeded.

**OTHER PROTECTIVE EQUIPMENT:** No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended.

**SECTION 9: Physical and chemical properties**

(a) Appearance:	White to off-white powder
(b) Odor:	None
(c) Odor threshold:	ND
(d) pH:	7.5 - 8.5
(e) Melting point / freezing point:	1,450 ° C
(f) Initial boiling point and boiling range:	ND
(g) Flash point	Not Combustible
(h) Evaporation rate (BuAc=1):	ND
(i) Flammability:	ND
(j) Upper/lower flammability or explosive limits:	ND
(k) Vapor Pressure:	ND
(l) Vapor density:	ND
(m) Relative density:	ND
(n) Solubility:	ND
(o) Partition coefficient: n-octanol/water:	ND
(p) Auto-ignition temperature:	ND
(q) Decomposition temperature:	1,450 ° C
(r) Viscosity:	ND

**Safety Data Sheet**

Form No. A-169

**Date Prepared:** 1/21/2014**SECTION 10: Stability and reactivity**

(a) Reactivity:	Low, HMIS 0
(b) Chemical stability:	Stable
(c) Possibility of hazardous reactions:	Low
(d) Conditions to avoid:	Incompatible with Acids
(f) Hazardous decomposition products:	Decomposes to Calcium Oxide and Sulfur Dioxide at 1,450 ° C

**SECTION 11: Toxicological information**

Acute toxicity	NE
Skin corrosion/irritation	NE
Serious Eye Damage / Irritation	NE
Respiratory or skin sensitization	NE
Germ cell mutagenicity	NE
Carcinogenicity	NE
Reproductive toxicity	NE
STOT-single exposure	NE
STOT-repeated exposure	NE
Aspiration Hazard	NE

(a) Exposure route: Inhalation, skin and/or eye contact

(b) Symptoms related to the physical, chemical and toxicological characteristics:  
Difficulty breathing, rashes or irritations

(c) Delayed and immediate effects and also chronic effects from short and long term exposure:  
Difficulty breathing, rashes or irritations

(d) Numerical measures of toxicity:  
See control paramaters above

**SECTION 12: Ecological information**

(a) Ecotoxicity:	ND
(b) Persistence and degradability:	ND
(c) Bioaccumulative potential	ND
(d) Mobility in soil:	ND
(e) Other adverse effects:	ND

**SECTION 13: Disposal considerations****Product:****Recommendation**

Dispose of material in accordance with all applicable federal, state and local regulations.

**SECTION 14: Transport information**

**(a) UN Number**

This product is not regulated as a hazardous material by neither the United States (DOT) Transportation regulations nor Canadian Transportation of Dangerous Goods.

**(b) UN Proper shipping name**

NA

**(c) Transport hazard class(es)**

NA

**(d) Packing Group**

NA

**(e) Environmental hazards**

NA

**(f) Transport in bulk**

NA

**(g) Other Information**

**SECTION 15: Regulatory information**

**SARA Reporting Requirements:**

NA

**SARA Threshold Planning Quantity:**

NA

**TSCA Inventory Status:**

ND

**Other Federal Requirements:**

NA

**Other Canadian Regulations:**

NA

**State Regulatory Information:**

NA

**SECTION 16: Other information****PREPARED BY:** Sarah Johnson**BAR QMS SDS REFERENCE:** A155**HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:**

Health	0
Flammability	0
Reactivity	0
Other	NA

**REVISION NUMBER:** 140121**CHANGES FROM PREVIOUS VERSION:**

INITIAL VERSION

**ABBREVIATIONS**

NA Not Applicable	LD Lethal Dose
ND Not Determined	TC Toxic Concentration
NE Not Established	TD Toxic Dose
ppm parts per million	BOD Biological Oxygen Demand
G Gallon	COD Chemical Oxygen Demand
mg Milligram	Lo Lowest
L Liter	ThOD Theoretical Oxygen Demand
gm Gram	TLm Threshold Limit
mol Mole	IC Inhibitory Concentration
kg Kilogram	DOC Dissolved Organic Carbon
μ Micro	H Hours
mm Millimeter	M Months
Pico	D Days
Pa Pascals	Y Years
c cento	W Weeks
LC Lethal Concentration	

ACGIH American Conference of Governmental Industrial Hygienist

CPR Controlled Product's Regulation

DSL Canadian Domestic Substances List

NDSL Canadian Non-domestic Substance List

IARC International Agency for Research for Cancer

NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

TLV Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OF CHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.