

Natures Garden
42109 State Route 18
Wellington, OH 44090
440-647-0100
www.naturesgardencandles.com

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MATERIAL SAFETY DATA SHEET

SECTION I.

PRODUCT IDENTIFICATION

Product name: BENTONITE, SODIUM, or CALCIUM Type
Trade name: 10/100, 10/50, 200 WESTERN, 220 BARREL, 4/10, BGH 30, CREAM 200, ENVIROGEL #10, GRANULAR 10/40, MASTIC, No. 34, No. 40, No. 325, HYDROGEL 90, ENVIROGEL 200, FEED GRADE POWDER, FS-30, WG-30, #16, WG 200, ORGANO, PURIFIED LOW LEAD, POLARGEL NF, 2004G, BENTOLITE, CLEAR TREAT, CH-200 and others

Chemical family: NATURAL MINERAL, MONTMORILLONITE
Formula: NATURALLY OCCURRING HYDRATED ALUMINOSILICATE OF SODIUM, CALCIUM, MAGNESIUM, AND IRON.

CAS#: 1302-78-9

SECTION II.

HAZARDOUS INGREDIENTS

Preservatives & Solvents: NONE
Other gases & liquids: NONE
Other solids: RESPIRABLE CRYSTALLINE SILICA (CAS#'S 7631-86-9 AND 14808-60-7). ESTIMATED QUANTITY LESS THAN 2%.

SECTION III.

PHYSICAL DATA

Percent, volatile: NONE
Solubility in water: INSOLUBLE
Vapor pressure: NOT APPLICABLE
Vapor density: HEAVIER THAN AIR
Specific gravity: 2.45 to 2.6
Appearance: LIGHT TAN TO GRAY AS DRY POWDER
Odor: ODORLESS

SECTION IV.

FIRE AND EXPLOSION HAZARD DATA

Flash point: NOT APPLICABLE
Extinguishing media: NOT APPLICABLE
HMIS rating: 0

Hazardous polymerization: NONE
HMIS reactivity rating: 0

SECTION VI

HEALTH HAZARD DATA

Exposure limits (OSHA PEL @ 8 hr. TWA)
Bentonite: 15 mg/m³ (TOTAL DUST)
5 mg/m³ (RESPIRABLE DUST)

Reparable crystalline silica: 0.1 mg/m³

Health hazards:

Skin: POSSIBLE DRYING RESULTING IN DERMATITIS.

Eyes: MECHANICAL IRRITANT.

Inhalation Acute: SHORT TERM EXPOSURE TO DUST LEVELS EXCEEDING THE PEL MAY CAUSE IRRITATION OF RESPIRATORY TRACT RESULTING IN A DRY COUGH.

Inhalation Chronic: CHRONIC (LONG TERM) EXPOSURE TO FREE SILICA CONTAINED IN AIRBORNE BENTONITE DUST WHERE LEVELS ARE HIGHER THAN TLV'S MAY LEAD TO DEVELOPMENT OF SILICOSIS OR OTHER RESPIRATORY PROBLEMS. PERSISTENT DRY COUGH AND LABORED BREATHING UPON EXERTION ARE SYMPTOMATIC.

Ingestion: NO ADVERSE EFFECTS.

Signs and symptoms of exposure:

EXCESSIVE INHALATION OF DUST MAY RESULT IN SHORTNESS OF BREATH AND REDUCED PULMONARY FUNCTION.

Carcinogenicity:

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS DETERMINED THAT CRYSTALLINE SILICA INHALED IN THE FORM OF QUARTZ OR CRYSTOBALITE IN CONJUNCTION WITH THE USE OF THESE MATERIALS FROM OCCUPATIONAL SOURCES IS CARCINOGENIC TO HUMANS. (GROUP 1 - CARCINOGENIC TO HUMANS) (REFER TO IARC MONOGRAPH 68, SILICA, SOME SILICATES AND ORGANIC FIBERS PUBLISHED JUNE 1997). THE NATIONAL TOXICOLOGY PROGRAM CLASSIFIES RESPIRABLE CRYSTALLINE SILICA AS "REASONABLE ANTICIPATED TO BE A CARCINOGEN". FOR FURTHER INFORMATION SEE: "ADVERSE EFFECTS OF CRYSTALLINE SILICA EXPOSURE" PUBLISHED BY THE AMERICAN THORACIC SOCIETY MEDICAL SECTION OF THE AMERICAN LUNG ASSOCIATION, AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE, VOLUME 155, PAGES 761-765, 1997.

THE SMALL QUANTITIES OF CRYSTALLINE SILICA (QUARTZ) FOUND IN THIS PRODUCT ARE, UNDER NORMAL CONDITIONS, NATURALLY COATED WITH AN

Medical conditions generally aggravated by exposure: INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASE INCLUDING BUT NOT LIMITED TO ASTHMA AND BRONCHITIS SHOULD BE PRECLUDED FROM EXPOSURE TO DUST.

Emergency and first aid procedures:
Eyes: FLUSH WITH WATER UNTIL IRRITATION CEASES.
Skin: WASH WITH SOAP AND WATER UNTIL CLEAN.
Inhalation: MOVE TO AREA FREE FROM DUST. IF SYMPTOMS OF IRRITATION PERSIST, CONTACT PHYSICIAN. INHALATION MAY AGGRAVATE EXISTING RESPIRATORY ILLNESS.

HMIS health hazard rating: 1

SECTION VII. SPILL, LEAK, AND DISPOSAL

Spills and leaks: AVOID BREATHING DUST, WEAR RESPIRATOR APPROVED FOR SILICA BEARING DUST. VACUUM UP TO AVOID GENERATING AIRBORNE DUST. AVOID USING WATER. PRODUCT SLIPPERY WHEN WETTED.

Disposal: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION VIII. SPECIAL PROTECTION

Respiratory: USE RESPIRATORS APPROVED BY NIOSH/MSHA FOR SILICA BEARING DUST.

Ventilation: MECHANICAL, GENERAL ROOM VENTILATION. USE LOCAL VENTILATION TO MAINTAIN PEL.

Protective gloves: RECOMMENDED

Eye protection: 92

RECOMMENDED

Other protection: NONE

SECTION IX. SPECIAL PRECAUTIONS

AVOID PROLONGED INHALATION OF AIRBORNE DUST. SLIPPERY WHEN WET. STORE IN DUSTLESS SYSTEMS FOR HANDLING, STORAGE, AND CLEAN UP.

NOT A DOT HAZARDOUS SUBSTANCE.