



GROUT BOMB SAFETY DATA SHEET

According to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Section 1 – Identification

Product Name: Grout Bomb / Cement Admixture

Common Names: Calcium Carbonate; Precipitated Silica; Synthetic Amorphous Silica
Chemical Name: (SiO₂) (Silane Modified) Silicon Dioxide and Octyltriethoxysilane (Mixture)

Distributor's Name/Address: Tile Media Properties Inc. / DbA; The Tile Doctor
 1395 S. Marietta Parkway SE. 200-222 Marietta,
 GA. 30067 (770) 447-0061

Material Use: Cement Grout Admixture

EMERGENCY PHONE: (800) 424-9300 (CHEMTREC)
International call: 703-527-3887 (collect calls accepted)

Section 2 - Hazardous Identification

GHS Classification: Not a hazardous substance or mixture
GHS Label Element: Not a hazardous substance or mixture
Emergency Overview: Non-combustible, white odorless powder
 Eye contact: Dust may cause mechanical irritation to eyes.
 Skin contact: Dust may cause mechanical irritation to skin.
 Inhalation: Inhalation of dust may cause respiratory tract irritation.
 Ingestion: Ingestion of large amounts may cause nausea and constipation.
 Sensitization: Does not cause sensitization.

Section 3 – Composition and Information on Ingredients

<u>Composition of Ingredients</u>	<u>CAS No.</u>	<u>Weight, %</u>
Calcium Carbonate	14808-60-7	> 50%
Synthetic Amorphous Silica, Silicon dioxide	112926-00-8 (7631-86-9)	>1%
Octyltriethoxysilane	2943-75-1	>1%

CHEMICAL CHARACTERIZATION: MIXTURES

Registered with an "OR" (EU REACH "Only Representative")

Section 4 - First Aid Measures

Eye Contact: Wash immediately with water. Rinse with eyelids away from eyeball for thorough rinsing. If irritation persists, seek medical attention.

Inhalation: For gross inhalation, remove person immediately to fresh air. Seek medical attention as needed.

Skin Contact: Wash skin with soap and water. Apply moisturizer or lotion to avoid dryness.

Ingestion: Rinse mouth with water. Do not induce vomiting.

Section 5 - Fire Fighting Measures

NFPA:	Health 1	Flammability 0	Reactivity 0	PPE: E
HMIS:	Health 1	Flammability 0	Reactivity 0	

Extinguishing media: All extinguishing media can be used. Use suitable media appropriate for the surrounding fire.

Unsafe extinguishing media: None

Unsuitable extinguishing media: None

Special exposure hazards: None

Special protective equipment for firefighters: Firefighters should wear protective clothing and use equipment that is suitable for the materials involved in the surrounding fire.

Section 6 - Accidental Release Measures

Personal precautions: Avoid dust formation. When exposed to high concentrations of airborne dust, wear a SCBA in accordance with national legislation.

Cleanup methods: Pick up mechanically and/or by rinsing with water. Avoid dry sweeping and use a sprinkler system or exhaust ventilation to prevent dust formation.

Section 7 - Handling and Storage

Handling: Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Store in closed containers. Store in a dry area.

Section 8 - Exposure Control/Personal Protection

<u>Ingredient</u>	<u>CAS No.</u>
Synthetic Amorphous Silica	112926-00-8 (7631-86-9)
Octyltriethoxysilane	2943-75-1

Not classified as hazardous as defined by the Chemicals Act or by Hazardous Substance Ordinance.

EXPOSURE LIMITS:

OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)

ACGIH: 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction)

NIOSH REL: TWA 6 mg / m³

USA OSHA CFR 29 Part 1910.1000 6 mg / m³

Ventilation and Engineering Controls: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in this section. Prudent practice is to ensure that eye wash station is available in close proximity.

Personal Protection: Use proper dust mask.

Respiratory Protection: If respiratory protection is needed, such as during emergency response to uncontrolled releases, use only protection authorized in 29 CFR 1910.134 applicable U.S. state regulations, or the appropriate standard of Canada and its provinces. In USA, ASTM E1156-88 (re-approved 1993) specifies standards for handling amorphous silica.

Hand Protection: Wear gloves for routine industrial use.

Eye Protection: Wear splash goggles or safety glasses with eye shields.

Skin and Body Protection: Avoid prolonged contact. Wear clothing or body protection appropriate for the task.

Local Exhaust: Use sufficient local exhaust to reduce level of respirable silica to the limits specified above.

Section 9 – Physical and Chemical Properties

Appearance:	White	Evaporation rate:	NA
Physical state:	Powder/Granules	Flammability (solid, gas):	NA
Odor:	Slight sulfur	Vapor pressure:	NA
Odor threshold:	No information	Vapor density:	NA
pH:	7-9, 5% water suspension	Density:	2.1 g/cm ³ , 20C
Melting point:	1700C	Water solubility:	Insoluble
Boiling point:	2230C	Auto-ignition temperature:	NA
Freeze point:	NA	Decomposition temperature:	NA
Flash point:	NA		

Section 10 - Stability and Reactivity

Chemically Stable:	Yes
Conditions to avoid:	May convert to crystalline silica when heated above 950C
Incompatibility (Materials to avoid):	Avoid contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride.
Hazardous Decomposition/By-Products:	Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.
Hazardous Polymerization:	Will not occur.

Section 11 - Toxicological Information

Non-classified Hazards

Acute toxicity:	Product not tested as a whole. This product is not considered a carcinogen.
Chronic toxicity:	No evidence of mutagenic, reproductive or carcinogenic effects
Sensitization:	Does not cause sensitization
Eye irritation:	Non-irritating
Skin irritation:	Non-irritating

Synthetic amorphous silica CAS 112926-00-8 (7631-86-9)

LD50 Oral	>3300 mg/kg (rat)
LD50 Dermal	>5000 mg/kg (rat)
LC50 Inhalation	LC50 > 0.14 - >2.0 mg/l

Section 12 – Ecological Information

Ecotoxicity:	EC50 (fish) > 10,000 mg/l
Persistence/Degradability:	Non-degradable
Bioaccumulative Potential:	Inert material
Mobility:	Inert material
Other Adverse Effects:	None known

Synthetic amorphous silica CAS 112926-00-8 (7631-86-9)

96-Hour LC50	Brachydanio rerio: 5000 mg/l (static)
72-Hour EC50	Pseudokirchneriella subcapitata: 440 mg/L
48-Hour EC50	Ceriodaphnia dubia: 7600 mg/L
Germany-Water Classification (VwVwS) – Annex 1:	849 : 0

Section 13 – Disposal Considerations

Disposal Method:

Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

Synthetic Amorphous Silica is virtually inert and has no known adverse effect on the environment. This product is not applicable for classification under RCRA.

Section 14 – Transport Information

LAND TRANSPORT**ADR CLASS:** Not Restricted**ADR ITEM NUMBER:** Not relevant**RID CLASS:** Not Restricted**RID ITEM NUMBER:** Not Relevant**HAZARD IDENTIFICATION NUMBER:** Not Relevant**SUBSTANCE IDENTIFICATION NUMBER:** Not Relevant**TREM CARD:** Not Relevant**UN NUMBER:** Not Relevant**PROPER SHIPPING NAME:** Not Relevant**SEA TRANSPORT****IMO/MDG CODE:****CLASS:** Not restricted**PACKING GROUP:** Not Relevant**UN NUMBER:** None**EMS:** Not Relevant**MFAG:** Not Relevant**MARINE POLLUTANT:** No**PROPER SHIPPING NAME:** Not Relevant**BASIC SHIPPING CLASSIFICATION:** Not Relevant**AIR TRANSPORT****ICAO-IATA-DGR CLASS:** Not Restricted**UN NUMBER:** None**PACKING GROUP:** Not Relevant**PROPER SHIPPING NAME:** Not Relevant

Section 15 – Regulatory Information

USA TSCA:

All components of this product are listed on the TSCA Inventory

EU EINECS:

All components of this product are listed on EINECS

CANADA DSL:

This product and/or all of its components are listed on the Canadian DSL

AUSTRALIA AICS:

All components of this product are listed on AICS

KOREA ECL:

All components of this product are listed on the KECI

JAPAN MITI (ENCs):

All components of this product are listed on MITI

CHINA IECSC:

All components of this product are listed on IECSC or otherwise exempt

SARA TITLE III**SARA 311, 312 Hazard Class:**

Product is not subject to these regulations

SARA 313 Chemicals:

Not listed

SARA Extremely Hazardous Substance:

Not listed

CERCLA Hazardous Substance:

Not listed

Clean Water Act: The components of this product are not regulated under any of the sections of the Clean Water Act: Section 307 or Section 311. It would be regulated under 304, Water Quality Criteria Substances for suspended solids.

Clean Air Act: The components of this product are not regulated under any of the sections of the Clean Air Act: Section 112, Section 112(r) or Section 602, Ozone Depleting Substance. As a powder product, it would be regulated under Section 109, Criteria Pollutants particulates.

Section 16 – Other Information

Training Advice:

Personnel handling the substance(s) named in this Safety Data Sheet should be skilled and trained in areas associated with the key points named herein.

Personnel should have training and access to appropriate PPE for handling this product.

Personnel handling the substance(s) named in this Safety Data Sheet are responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the substance(s) intended purpose.

If additional information is required, please contact the supplier or an expert.

Section 16 – Other Information (Continued)

Acronym/Abbreviation:	<p>International:</p> <p>ARD: International Carriage of Dangerous Goods by Road</p> <p>BOD: Biochemical Oxygen Demand</p> <p>CLP: Classification, Labeling and Packaging</p> <p>COD: Chemical Oxygen Demand</p> <p>D.O.T.: U.S. Department of Transportation</p> <p>ICAO: International Civil Aviation Organization</p> <p>IATA: International Air Transport Association</p> <p>IMO: International Maritime Organization</p> <p>IMDG: International Maritime Dangerous Goods</p> <p>INCI: International Nomenclature of Cosmetic Ingredients</p> <p>OES: Occupational Exposure Standard</p> <p>OR: EU REACH Only Representative</p> <p>PPE: Personal Protection Equipment</p> <p>RID: International Carriage by Rail</p> <p>SCBA: Self Contained Breathing Apparatus</p> <p>TLV-STEL: Threshold Limit Values – Short Term Exposure Limits</p> <p>TWA: Time Weighted Averages</p> <p>NORTH AMERICA</p> <p>CERCLA RQ: US EPA Comprehensive Environmental, Response, and Liability Act Reportable Quantity</p> <p>CERCLA: US EPA Comprehensive Environmental Response, Compensation, and Liability Act of 1980</p> <p>CONEG: Conference of Northeastern Governors</p> <p>NIOSH/MSHA: National Institute for Occupational Safety and Health/Mine Safety and Health Administration</p> <p>SARA: Superfund Amendments and Reauthorization Act (US EPA)</p> <p>TDG: Canada Transport of Dangerous Goods</p> <p>WHMIS: Canada's Workplace Hazardous Materials Information System</p>
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States Right-To-Know (RTK):**California Proposition 65**

This product is not known to contain a chemical at a level that is expected to pose significant risk under anticipated use conditions.

CONEG

Heavy metals defined as lead, mercury, cadmium and hexavalent chromium are not intentionally introduced to this product and with respect to these materials, the incident level of these four metals is less than 100 ppm.

CANADA**WHMIS:**

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

The information contained in this Safety Data Sheet to the best of Polymer Valley Chemicals' knowledge and belief as of the date indicated is believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information or the use of the product. Nothing contained herein should be construed as a recommendation to use this product in conflict with National or local regulations or existing patents covering any material or its use.

The user of this product has sole responsibility to determine the suitability of the product for any use and manner of use intended, and for determining the regulations applicable to such use in the relevant jurisdiction.

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