



SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

1. Identification

1.1. Product identifier

Product Name BAM GRAY

Other means of identification

Other information Not applicable

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use No information available

Restrictions on use No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party

Bostik Inc.
11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
Phone: +1(800) 726-7845 (Domestic Toll Free)
Phone: +1 (414) 774-2250 (International)

E-mail msds@bostik.com

1.4. Emergency telephone number

Emergency Telephone CHEMTREC (Chemical Transportation Emergency Center)
Chemtrec: 1-800-424-9300 (US) , 1-703-527-3887 (Outside U.S.)
Rocky Mountain Poison Center: 1-866-767-5089

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

2.2. Label elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes serious eye damage
May cause an allergic skin reaction
May cause cancer

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

Causes damage to organs through prolonged or repeated exposure



Appearance Powder

Physical state Solid

Odor No information available

Precautionary Statements - Prevention

Contaminated work clothing must not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3. Other Information

Product dust may be irritating to eyes, skin and respiratory system. When cement reacts with water a strong alkaline solution is produced. Prolonged contact with wet cement or wet concrete may cause serious burns because they develop without pain being felt e.g. when kneeling in wet cement even when wearing trousers. Frequent inhalation of large quantities of cement dust over a long period of time increases the risk of developing lung disease. Product dust may be irritating to eyes, skin and respiratory system. Repeated exposure may cause skin dryness or cracking. Causes mild skin irritation.

3. Composition/information on ingredients

3.1. Substances

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%
Quartz	14808-60-7	30 - 60
Cement, alumina, chemicals	65997-16-2	10 - 30
Limestone	1317-65-3	5 - <10
Calcium sulfate dihydrate	10101-41-4	5 - <10
Cement, portland, chemicals	65997-15-1	3 - <7

**The exact percentage (concentration) of composition has been withheld as a trade secret*

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

4. First-aid measures

4.1. Description of first aid measures

General advice	If medical advice is needed, have product container or label at hand. Take a copy of the Safety Data Sheet when going for medical treatment.
Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. May cause sensitization by skin contact. Brush off loose particles from skin. Remove material from skin immediately. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If swallowed, call a poison control center or physician immediately.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Burning sensation. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation. Causes serious eye damage. Irritating to skin. Inhalation of dust in high concentration may cause irritation of respiratory system. Dust irritates eyes and air passages.
Effects of Exposure	No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization by skin contact. May cause sensitization in susceptible persons. Treat symptomatically.
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5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating and toxic gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.
Hazardous combustion products	Carbon oxides. Sulfur oxides. Silicon dioxide.

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Avoid generation of dust. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent dust cloud. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Do not touch or walk through spilled material.

Methods for cleaning up Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Sweep up and shovel into suitable containers for disposal. Avoid generation of dust. Clean contaminated surface thoroughly.

Reference to other sections See section 8 for more information. See section 13 for more information.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid generation of dust. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep away from water or moist air.

7.3 References to other sections

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

Reference to other sections Section 10: STABILITY AND REACTIVITY
Section 13: DISPOSAL CONSIDERATIONS

8. Exposure Controls/Personal Protection

8.1. Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable particulate matter	TWA: 50 µg/m ³ (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Cement, alumina, chemicals 65997-16-2	10 mg/m ³ (total; 5 mg/m ³ (resp)	-	-
Limestone 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Calcium sulfate dihydrate 10101-41-4	TWA: 10 mg/m ³ inhalable particulate matter	-	-
Cement, portland, chemicals 65997-15-1	TWA: 1 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction TWA: 50 mppcf <1% Crystalline silica	IDLH: 5000 mg/m ³ TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust

Chemical name	Argentina	Brazil	S.D. 594/1999	Colombia
Quartz 14808-60-7	TWA-CMP: 0.05 mg/m ³ ; respirable fraction	TWA: 0.025 mg/m ³	TWA-LPP: 0.08 mg/m ³ ;respirable fraction	TWA: 0.025mg/m ³
Limestone 1317-65-3	TWA-CMP: 10 mg/m ³ ;	-	TWA-LPP: 7 mg/m ³ ;free of Asbestos with <1% free Crystalline Silica TWA-LPP: 5 mg/m ³ ;respirable fraction	-
Calcium sulfate dihydrate 10101-41-4	-	TWA: 10 mg/m ³	-	TWA: 10mg/m ³
Cement, portland, chemicals 65997-15-1	TWA-CMP: 10 mg/m ³ ;	TWA: 1 mg/m ³	TWA-LPP: 8.8 mg/m ³ ;free of Asbestos with <1% free Crystalline Silica	TWA: 1mg/m ³

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Quartz 14808-60-7	TWA: 0.025mg/m ³	TWA: 0.05mg/m ³	0.025 mg/m ³ TWA (respirable particulate matter)	TWA: 0.025 mg/m ³
Calcium sulfate dihydrate 10101-41-4	TWA: 10mg/m ³	-	10 mg/m ³ TWA (inhalable particulate matter, listed under Calcium sulfate)	-
Cement, portland, chemicals 65997-15-1	TWA: 1mg/m ³	TWA: 10mg/m ³	1 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)	TWA: 10 mg/m ³

8.2. Exposure controls

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Avoid contact with eyes.

Hand protection Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

Skin and body protection Wear suitable protective clothing.

Respiratory protection Use appropriate respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state Solid
Appearance Powder
Color Gray
Odor No information available
Odor threshold No information available

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	Not applicable . °C	Not applicable
Initial boiling point and boiling range	No data available	Not applicable
Flash point	No data available	Not applicable
Evaporation rate	Not applicable .	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available Cement based products react and solidify in contact with water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	Not applicable .	Not applicable
Dynamic viscosity	.	Not applicable
9.2. Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Solvent content (%)	No information available	
Solid content (%)	100	
Softening point	Not applicable	
Molecular weight	No information available	
VOC content	0 g/L	No information available
Liquid Density	1.158 g/cm ³	
Bulk density	No information available	

10. Stability and Reactivity

10.1. Reactivity

Reactivity Product cures with moisture.

10.2. Chemical stability

Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Product cures with moisture. Protect from moisture.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents. Acids. Aluminum.

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied

11. Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	May cause irritation. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	>5000 mg/kg
ATEmix (dermal)	>5000 mg/kg
ATEmix (inhalation-gas)	>20000 ppm
ATEmix (inhalation-dust/mist)	>5 mg/l
ATEmix (inhalation-vapor)	>20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Quartz 14808-60-7	=6450 mg/kg (Rattus)	-	-
Cement, alumina, chemicals 65997-16-2	LD50 >2000 mg/Kg Rat	LD50 >2000 mg/Kg Rattus	-
Limestone 1317-65-3	>5000 mg/kg (Rattus)	-	-
Cement, portland, chemicals 65997-15-1	LD50 >2000 mg/Kg (Rattus)	LD50 >2000 mg/Kg	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious eye damage.

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

Respiratory or skin sensitization May cause an allergic skin reaction. May cause sensitization by skin contact. May cause sensitization in susceptible persons.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Occupational Safety and Health Administration of the US Department of Labor

X - Present

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Cement, alumina, chemicals 65997-16-2	EC50 (72h)Algae (Pseudokirchneriella subcapitata) >5.6mg/L	LC50 (96h) (Onchorhynchus mykiss) >100 mg/L (OECD 203)	-	EC50 (48h) Daphnia magna =6.6mg/L (OECD 202)
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmodesmus subspicatus)	CL50 (96h)>10000mg/L (Oncorhynchus mykiss)	-	CE50 (48h) >1000 mg/L Daphnia Magna

12.2. Persistence and degradability

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Limestone 1317-65-3	0.9

12.4. Mobility in soil

Mobility No information available.

Other adverse effects

Other adverse effects No information available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Contaminated packaging Dispose of in accordance with federal, state and local regulations.

14. Transport information

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. Regulatory Information

International Inventories

TSCA	Complies
DSL	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Complies - The components of this product are either listed or exempt from listing on inventory. Active

Not Listed - One or more components of this product are not listed on inventory.

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

16. Other Information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

Prepared By Product Stewardship and Regulatory Affairs.

Revision date 06-Mar-2025

Revision Note No information available.

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at

<https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-management/medical-device-policy/> which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact

SAFETY DATA SHEET

BAM GRAY
Revision Number 3

Revision date 06-Mar-2025
Supersedes date 05-Mar-2019

with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

End of Safety Data Sheet