

SAFETY DATA SHEET

Brown & Watson Company, Inc.

Butler Sand Company and Howard Sand Company

www.butlersand.com

SILICA SAND, ALL GRADES

Revision date: 1-20-2024

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier Silicon Dioxide - Natural Silica Sand

Product Names : Concrete Sand, Masonry Sand, Top Dressing Sand, Bunker Sand, Greens Construction Sand, J.C. White Sand, Super Fine Sand, Special Blends

CAS-No : 14808-60-7

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance : Various uses as appropriate for the type of sand being used.

1.3 Details of the Supplier of the Safety Data Sheet

Brown & Watson Company, Inc.
186 Lewis Watson Jr. Road / PO Box 1890
Butler, GA 31006
USA
Telephone: 478-862-5426

1.4 Emergency Telephone Number

Emergency Number: 478-862-5426
M - TH 8 AM ~ 5 PM EST
Friday 8 AM ~ 4 PM EST

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity (Category 1A), H350

Specific target organ toxicity - repeated exposure, Inhalation (Category 1), Lungs, H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Irritant

Health Hazard

Hazard statement(s)

H335

May cause respiratory irritation.

H350

May cause cancer (Inhalation).

H372

Causes damage to organs (Lungs/respiratory system) through prolonged or repeated exposure if inhaled.

Precautionary statement(s)

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P260

Do not breathe dust.

P264

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves / clothing / eye protection / face protection.

P308 + P313

IF exposed or concerned: Get medical advice / attention.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms :

Crystalline Silica
Quartz
Sand

Formula :

SiO₂

Molecular weight :

60.08 g/mol

CAS-No. :

14808-60-7

EC-No. :

238-878-4

Name	Product Identifier	Percent	GHS-US Classification
Quartz	(CAS No.) 14808-60-7	99 - 99.5	Carcinogen 1A, H350 STOT SE 3, H335 STOT RE 1, H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Mixtures

Not Applicable

4 FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice:

Move out of dangerous area. Consult a physician if symptoms persist.

If Inhaled:

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In Case of Skin Contact:

Wash with soap and plenty of water. Thoroughly clean any open wounds, abrasions, or irritated areas.

In Case of Eye Contact:

Rinse eyes with generous amounts of water while holding eyelids open. Seek Medical attention if material is embedded in the eye, or if irritation persists.

If Swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Symptoms and Effects, both Acute and Delayed

After Inhalation:

Repeated or prolonged inhalation may damage lungs. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of the throat with constricting sensation of the larynx and difficulty in breathing.

After Skin Contact:

Prolonged contact with particles may cause mechanical irritation. Particles and dust may cause irritation in skin folds or by contact in combination with tight clothing. Redness and pain may occur.

After Eye Contact:

Redness, Pain.

After Ingestion:

Abdominal pain.

Chronic Symptoms:

Respiratory difficulties. Cancer may occur.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No additional information available

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media:

None known.

5.2 Special Hazards Arising from the Substance or Mixture

Fire Hazard:

Not Flammable

Explosion Hazard:

No particular fire or explosion hazard

Reactivity:

Hazardous reactions will not occur under normal circumstances

5.3 Advice For Firefighters

Precautionary Measures:

Fight fire with normal precautions from a reasonable distance

Firefighting Instructions:

Not Flammable

Protection During Firefighting:

Use normal individual fire protective equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergence Procedures

General Measures:

Do not breathe dust. Avoid generation of dust during clean up of spills. Recover product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates.

6.1.1 For Non-Emergency Personnel

Protective Equipment:

Wear suitable protective clothing, gloves and eye/face protection. Use recommended respiratory protection

Emergency Procedures:

Collect as any solid.

6.1.2 For Emergency Responders

No additional information available

6.2 Environmental Precautions

No additional information available

6.3 Methods and Material for Containment and Cleaning Up

Sweep up or shovel. Avoid creating dust. Store in suitable closed containers for disposal.

6.4 Reference to Other Sections

No additional information available.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Do not breathe in dust, and avoid creating or spreading dust. Avoid contact with eyes and other mucous membranes.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions:

Provide appropriate ventilation in areas where dust is formed. Keep containers closed when not in use.

Incompatible Materials:

Strong oxidizers such as hydrofluoric acid, chlorine trifluoride, oxygen difluoride, fluorine.

7.3 Specific End Uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³) (Mineral Dust)	(30)/(% SiO ₂ + 2) mg/m ³ - total dust (10)/(% SiO ₂ + 2) mg/m ³ - respirable fraction

8.2 Exposure Controls

Appropriate Engineering Controls:

Ensure adequate ventilation, especially in confined areas. Avoid dust production.

Personal Protective Equipment:

Eye Protection: Protective goggles

Hand Protection: Impermeable gloves

Skin & Body Protection: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wear suitable protective clothing.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state	: Solid
Appearance	: Crystalline solid
Color	: Natural color
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 1710 °C (3110 °F)
Freezing point	: No data available
Boiling point	: 2230 °C (4046 °F)
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 2.65 (approximately)
Solubility	: Water: Insoluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity	: No data available
Explosive properties	: None known.
Oxidizing properties	: None known.
Explosive limits	: No data available

9.2 Other Information

No additional information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous reactions will not occur under normal conditions.

10.2 Chemical stability

Stable under normal temperature and pressure.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Avoid strong oxidizers.

10.6 Hazardous decomposition products

Quartz (silica) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity :	Not classified
Skin corrosion/irritation :	Not classified
Serious eye damage/irritation :	Not classified
Respiratory or skin sensitization :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	May cause cancer (inhalation)

Quartz (14808-60-7)	
IARC group	Group 1
National Toxicity Program (NTP) Status	Known Human Carcinogen (Inhalation)

Reproductive toxicity :	Not classified
Specific target organ toxicity (single exposure) :	May cause respiratory irritation.
Specific target organ toxicity (repeated exposure):	Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (inhalation)

Silica Sand, All Grades (14808-60-7)	
Additional Information	Repeated or prolonged exposure to respirable crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.

Aspiration Hazard: Not classified

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
No additional information available.
- 12.2 Persistence and Degradability**
Not biodegradable.
- 12.3 Bioaccumulative Potential**
No data available.
- 12.4 Mobility in Soil**
No data available.
- 12.5 Other Adverse Effects**
No data available.

13. DISPOSAL CONSIDERATIONS

Non hazardous waste. Disposal must be handled according to jurisdictional regulations.

14. TRANSPORT INFORMATION

- DOT (US)** Not dangerous goods
- IMDG** Not dangerous goods
- IATA** Not dangerous goods

15. REGULATORY INFORMATION

- SARA 302 Components :**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 Components :**
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards :**
Chronic Health Hazard

Massachusetts Right To Know Components :

Quartz	CAS-No. 14808-60-7	Revision Date	1994-04-01
--------	--------------------	---------------	------------

Pennsylvania Right To Know Components :

Quartz	CAS-No. 14808-60-7	Revision Date	1994-04-01
--------	--------------------	---------------	------------

New Jersey Right To Know Components :

Quartz	CAS-No. 14808-60-7	Revision Date	1994-04-01
--------	--------------------	---------------	------------

California Prop. 65 Components :

Quartz	CAS-No. 14808-60-7	Revision Date	2007-09-28
--------	--------------------	---------------	------------

WARNING! This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

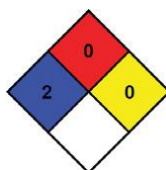
Carc. 1A	Carcinogenicity Category 1A
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
STOT RE 1	Specific Target Organ Toxicity - Repeated Exposure - Category 1
STOT SE 3	Specific Target Organ Toxicity - Single Exposure - Category 3

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0



The above information is believed to be accurate based on the most current data available and current as of the date of this Safety Data Sheet, and is offered in good faith. This information does not relate to use in a combination with any other material or in any other process. Brown & Watson Company, Inc. makes no warranty, either expressed or implied, with respect to such information, and assumes no liability resulting from its use. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Brown & Watson Company, Inc. it is the user's obligation to determine the conditions of safe use of the product and the suitability of each product or product combination for their own purposes. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents. Any use of the information herein must be determined by the user to be in accordance with federal, state, and local laws and regulations. Brown & Watson Company, Inc. shall not be liable for claims, losses, or damages of any third party or for lost profits or incidental or consequential damages.