P.W. GILLIBRAND Co., Inc.
Specialty Products

Distributed by:
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# SAFETY DATA SHEET (SDS)

## SECTION 1: IDENTIFICATION

| | |
|---|---|
| Product Name: | Industrial Sand, including various Sand and Gravel Products |
| Common Names: | 8-12-16-20-30-50-60-70-90-120 mesh sizes, including blends and oversized. #2-#3-#4-#5 gravel, silica sand, crystalline sand, quartz sand, flint sand. |
| Trade Names: | Feldspathic Amber Glass Sand, Silver Sand, ProCourt, ProTour, WedgeWhite, Caltega and various other names. |
| Common Uses: | Filter sand, filter gravel, glass sand, frac sand, construction sand, construction gravel, play sand, fill sand, volleyball sand, beach sand and different blends for various purposes, including golf courses and other sport field and recreational uses. |
| Manufacturer: | P.W. GILLIBRAND CO., INC<br>4537 ISH DRIVE<br>SIMI VALLEY CA 93063<br>Tel: (805) 526-2195<br>Fax : (805) 522-4031 |
| Emergency Contact: | CHEMTREC: (800) 424-9300 |

## SECTION 2: HAZARD IDENTIFICATION

**GHS Classification:** Carcinogen



**Signal Word:** Danger

**Hazard Statement:** May cause damage to lungs through prolonged or repeated exposure by inhalation.

**Precautionary Statements:**

- Do not handle until all safety precautions have been read and understood.
- Wear respirator if prolonged exposure to dust will occur.
- If exposed or concerned: Get medical advice.
- Dispose of container in accordance with local/regional/national regulations.

**Inhalation:** In addition to causing cancer, prolonged exposure to respirable crystalline silica may cause silicosis, a fibrosis (scarring) of the lungs which is permanent and progressive that may lead to death. Silicosis may aggravate or increase the risk of tuberculosis, scleroderma, nephrotoxicity, bronchitis, emphysema, and asthma. Blends that contain natural peat may contain naturally occurring microorganisms. Actions taken to control hazards related to respirable crystalline silica are adequate to

control hazards from microorganisms that may be also present in some products.

**Eye Contact:** A mechanical irritant which can cause moderate eye irritation. This product may cause abrasion to the cornea. Avoid wearing contact lenses when working with product.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name, Chemical Compound | CAS Number | Typical % By Weight |
|---|---|---|
| Amorphous Silica, $SiO_2$ | 7631-86-9 | 76 - 87 |
| Total Crystalline Silica (Quartz), $SiO_2$ | 14808-60-7 | 13 - 24 |
| Respirable Crystalline Silica (Quartz < 4 µm), $SiO_2$ | 14808-60-7 | 0.06 |

## SECTION 4: FIRST AID MEASURES

**Inhalation:** No specific first-aid is necessary since adverse health effects associated with exposure to crystalline silica (quartz) result from chronic exposure**.** In case of gross inhalation, remove the person to fresh air, give artificial respiration if needed and seek medical attention.

**Eye Contact:** Wash immediately with water. If irritation persists, seek medical attention.

**Skin Contact:** None required.

**Ingestion:** Not applicable.

## SECTION 5: FIRE FIGHTING MEASURES

This product is not flammable, combustible or explosive. Hazardous polymerization will not occur.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Spills:** Use of dustless methods (water or HEPA-A type Vacuum) to clean up if possible. Avoid breathing dust. See personal protective equipment (PPE) specified in EXPOSURE CONTROL/PERSONAL PROTECTION SECTION 8.

**Waste Disposal Methods:** This product is not a hazardous waste and should be disposed of in accordance with federal, state and local regulations. See SECTION 13.

## SECTION 7: HANDLING AND STORAGE

**Precautions During Handling and Use:** Do not breathe dust. Use adequate ventilation and/or dust collection methods. Avoid breakage of bagged material or spills of bulk material. Wash or vacuum clothing which becomes dusty. If concentrations exceed applicable standards, then use proper respiratory protection. Avoid contact with eyes. The wearing of contact lenses is not recommended. See SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

**Storage Requirements:** Avoid windblown dust by shielding or covering outdoor stockpiles.

**Special Sensitivity or Incompatibility:** Avoid contact with strong acids and oxidizers. See SECTION 10. STABILITY AND REACTIVITY.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| Exposure Limits | ACGIH TLV (mg/m$^3$) | OSHA PEL (mg/m$^3$) | CalOSHA PEL (mg/m$^3$) | NIOSH IDLH (mg/m$^3$) | NIOSH REL (mg/m$^3$) |
|---|---|---|---|---|---|
| Respirable crystalline silica: | 0.025 | 10 ÷ (%$SiO_2$ + 2) | 0.1 | 50 | 0.05 |
| Total crystalline silica: | - | 30 ÷ (%$SiO_2$ + 2) | 0.3 | - | - |
| Amorphous silica: | 10 | 80 ÷ (%$SiO_2$) | 6 | 3000 | 6 |
| Respirable amorphous silica: | 3 | 5 | 3 | - | - |
| Respirable nuisance dust: | 3 | 5 | 5 | - | - |
| Total nuisance dust: | 10 | 15 | 10 | - | - |

**Engineering and Administrative Controls:** Natural ventilation is usually adequate for protection from inhalation hazards. Use designed ventilation systems and/or wet methods to control product in workplace air, if necessary. Use administrative controls such job rotation to supplement engineering controls. Use personal protection equipment (PPE) as a last resort to control exposure.

**Respiratory Protection:** Not normally required. May be required if material is further reduced in size to produce a higher fraction of respirable crystalline silica dust or dispersed into air (e.g. sandblasting). When concentrations exceed applicable standards, a NIOSH/MSHA approved air purifying respirator with HEPA cartridges or supplied air is recommended.

**Eye Protection:** Wear safety glasses with side shields or goggles to protect eyes from dust and particulate. Wearing of contact lenses is not recommended because dust can get under the lenses and cause abrasion of the cornea.

**Skin Protection:** Not required under normal circumstances

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: | This product is a white, silver, gray, tan, or granular sand. |
| Odor: | None |
| Odor threshold: | Not Applicable |
| pH: | Not Applicable |
| Melting point/freezing point: | 3050 ˚F (1677C) |
| Initial Boiling Point: | 4046 ˚F (2230 C) |
| Flash point: | Not Applicable |
| Evaporation rate: | Not Applicable |
| Flammability: | Not Applicable |
| Upper/lower flammability limits: | Not Applicable |
| Vapor pressure: | Not Applicable |
| Vapor density: | Not Applicable |
| Relative density ($H_2O$ = 1): | 2.60 - 2.65 |
| Solubility: | Insoluble |
| Partition coefficient: | Not Applicable |
| Auto-ignition temperature: | Not Applicable |
| Decomposition temperature: | Not Applicable |
| Viscosity: | Not Applicable |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity: | Inert |
| Chemical stability: | Stable |
| Possibility of hazardous reactions: | Unlikely |
| Conditions to avoid: | Crushing this material will increase the respirable fraction and related hazards. |
| Incompatible materials: | Contact with strong acids or oxidizing agents such as molten magnesium, fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, or hydrofluoric acid may cause fires or generation of corrosive gases. |
| Hazardous decomposition products: | None |

## SECTION 11: TOXICOLOGICAL INFORMATION

**Likely routes of exposure:** Inhalation and eye contact.

**Symptoms related to the physical, chemical and toxicological characteristics:**

**Silicosis:** Prolonged exposure to respirable crystalline silica may cause silicosis, a fibrosis (scarring) of the lungs which is permanent and progressive that may lead to death. Silicosis may aggravate or increase the risk of tuberculosis, scleroderma, nephrotoxicity, bronchitis, emphysema, and asthma.

**Eye irritation:** This product can cause moderate eye irritation and may cause abrasion to the cornea.

**Delayed and immediate effects and also chronic effects from short- and long-term exposure:**
For single or limited exposures there are no signs or symptoms of exposure to respirable crystalline silica. For routine exposure and for individuals with existing respiratory illness (e.g., bronchitis, emphysema, chronic obstructive pulmonary disease) symptoms include shortness of breath, wheezing, cough, sputum production, weight loss, fever.

**Numerical Measures of Toxicity:** This product is not acutely toxic. The literature search did not reveal numerical measures of toxicity (e.g., $LC_{50}$) other than the regulatory thresholds presented in Section 8.

**Carcinogenicity:** This product contains respirable crystalline silica which is classified as a Class 1 carcinogen by IARC, a known human carcinogen by NTP and OSHA, and a California Proposition 65 carcinogen.

## SECTION 12: ECOLOGICAL INFROMATION

This product is not known to be ecotoxic (i.e. there is no data which suggests that this product is toxic to birds, fish, invertebrates, microorganisms or plants).

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** This product is not a hazardous waste and may be landfilled. If this product is contaminated with hazardous materials, then place the waste in a properly labeled, suitable waste container. Contaminated material must be disposed in accordance with federal, state and local regulations using the proper waste classification.

## SECTION 14: TRANSPORT INFORMATION

**US DOT Shipping Name:** Not Regulated **DOT LABEL:** None **UN/NA Number:** None

This product not listed as a hazardous substance by U.S. Department of Transportation.

## SECTION 15: REGULATORY INFORMATION

**TSCA/CEPA Status:** Components of this product are included in the TSCA and CEPA Chemical Inventories.

**CERCLA:** Not applicable.

**RCRA:** Not applicable.

**SARA Title III:**

**Section 302 Extremely Hazardous:** Not applicable.

**Section 311/312 Hazard Categories:** Reportable as a hazardous substance. Check with your Local Emergency Planning Committee for reportable quantities.

**Section 313 Toxic Chemicals:** Not applicable.

## SECTION 16: OTHER INFORMATION

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