Safety Data Sheet (SDS)

Section 1 – Identification

1.1 **Product Identifier:** Precast Concrete Products

1.2 **General Use:** Used for construction and civil engineering projects for residential, commercial, industrial, agricultural, and transportation projects including but not limited to: septic tanks, risers, parking curbs, manholes, catch basics, box culverts, weir walls, and utility vaults.

1.3 **Manufacturer:**

Gillespie & Son
100 Dixon Drive
Chestertown, Maryland 21620
410-778-0900

Gillespie Precast
102 Brickyard Road
Chestertown, Maryland 21620
410-778-0940

1.4 **Emergency Contact:** 410-778-0900 OR 410-778-0940

Section 2 – Hazards Identification

2.1 **Classifications of the substance or mixture:**

- Skin Sensitizer – Category 1
- Carcinogenicity – Category 1A
- Specific Target Organ Toxicity (Single Exposure-Respiratory System) – Category 3
- Specific Target Organ Toxicity (Repeat Exposure-Respiratory System) – Category 1

2.2 **GHS Label elements, including precautionary statement**

Pictograms:
Signal Word: **Danger**

Hazard Statement: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Respirable dust may contain crystalline silica, known to cause cancer. May cause respiratory irritation. Causes damage to lungs through prolonged or repeated exposure.

Precautionary statement:

Prevention

Do not eat, drink, or smoke while using this product. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Wear protective equipment when handling. Do not breathe dust.

Response

If exposed or concerned: Seek medical advice/attention.
If on skin: Wash with plenty of water, remove any contaminated clothing.
If skin rash or irritation occurs: Seek medical advice/attention.
If in eyes: Rinse thoroughly with water, remove any contact lenses.
If eye irritation persists: Seek medical advice/attention.
If inhaled: Remove person to fresh air.
If inhalation effects persist: Seek medical advice/attention.

Storage N/A

Disposal

Dispose of unused or unwanted concrete products in accordance with all local, regional, national, and international regulations.

Section 3 – Composition / Information on Ingredients

3.1 **Substances / Mixtures**

Chemical Name	CAS Number	Concentration %
Fine Aggregate (Silica, Quartz, Sands, Crystalline Silica)	Mixture 14808-60-7	55-75%
Course Aggregate (pea stone and limestone)	Mixture 1317-65-3	20-28%
Portland Cement	266-043-4	6-10%

Section 4 – First Aid Measures

4.1 Description of first aid measures:

Inhalation: Dust from cutting, grinding, sawing, or drilling product may be inhaled. If inhaled remove person immediately to fresh air. If breathing is difficult, give oxygen. SEEK MEDICAL ATTENTION IMMEDIATELY if person is unconscious or unable to breathe.

Skin Contact: Treat symptomatically. Cuts and abrasions should be cleaned and bandaged. Dust exposed skin should be rinsed with clean potable water. If irritation persists or develops later seek medical attention.

Eye Contact: Rinse eyes thoroughly with potable water for at least 15 minutes and remove contact lenses if easy to do. Rinse under eyelids to remove any particles. Seek medical attention for abrasions and burns.

Ingestion: Highly improbable. If the person is conscious and aware, give large amounts of water. Never attempt to make an unconscious person drink or vomit. If the person is choking due to blocked airway it may be necessary to perform the Heimlich maneuver. If the person is unconscious it may be necessary to sweep the blockage out of the mouth using a finger. CPR chest compressions may also dislodge any blockage. Seek emergency medical attention from a physician immediately.

4.2 Most important symptoms and effects:

Inhalation: Inhalation of dust may cause irritation of the respiratory tract and pulmonary edema. May cause allergic or asthma like respiratory reactions if inhaled.

Skin Contact: Projectile fragments may cause cuts or abrasions when in contact with skin. Dusts may irritate the skin.

Eye Contact: Projectile fragments may cause cuts or abrasions when in contact with eyes. Dusts may cause severe irritation, abrasions, burns, redness, tissue destruction and permanent eye damage including blindness.

Ingestion: Expected to be virtually nontoxic. Ingestion of large amounts of dust may cause gastrointestinal irritation, choking/blockage.

4.3 Indication of any immediate medical attention and special treatment needed: See Section 4.1.

Section 5 – Fire-Fighting Measures

5.1 Extinguishing media: Suitable extinguishing media This product is not flammable. Use extinguishing agents suitable for surrounding materials.
5.2 Suitable extinguishing agents: Use fire-fighting measures that suit the environment.
5.3 Special hazards arising from the substance or mixture: Special hazards arising from the substance or mixture Contact with powerful oxidizing agents may cause fire and/or explosions.
5.4 Advice for firefighters: No unusual fire or other hazards exist.
5.5 Protective equipment: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid generating dust. Avoid prolonged contact with eyes, skin, and clothing. Do not breathe dust.
6.2 Environmental precautions
Product, when intact, is not an environmental hazard.
6.3 Methods and materials for containment and cleaning up
Avoid cutting, sawing, drilling, or grinding to decrease generation of dust.
6.4 Reference to other sections
Not applicable

Section 7 – Handling and Storage

7.1 Precautions for safe handling
Respirable crystalline silica-containing dust may be generated during processing, handling, and storage. Use all appropriate measures of dust control or suppression, and Personal Protective Equipment (PPE) described in Section 8.
7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
7.3 Specific end use(s):
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 – Exposure Controls / Personal Protection

8.1 Control parameters:

Component	OSHA/MSHA PEL	ACGIH TLV	NIOSH REL
Portland Cement	15 mg/m3 8 hours (total dust) 5 mg/m3 8 hours (respirable)	1 mg/m3 8 hours (respirable fraction)	5 mg/m3 (respirable fraction) 10 mg/m3 10 hours (Total)
Crystalline Silica (quartz)	10 mg/m3 / (%SiO2+2) 8 hours (respirable) 250 MPPCF / (%SiO2+5) 8 hours (respirable)	0.025 mg/m3 8 hours	0.05 mg/m3 10 hours (respirable fraction)
Limestone	5 mg/m3 8 hours (respirable fraction) 15 mg/m3 8 hours (total dust)		5 mg/m3 10 hr(respirable) 10 mg/m3 10 hours (total)

8.2 Control parameters:
Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation to minimize dust concentrations. Avoid creating or spreading dust. Ensure all national/local regulations are observed.

- **Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.
- **Materials for Protective Clothing:** Wear suitable protective clothing.
- **Hand Protection:** Wear protective gloves.
- **Eye Protection**: In case of excessive dust production, safety goggles are recommended.
- Skin and Body Protection: Wear suitable protective clothing.
- **Respiratory Protection:** The following applies to the product if it is cut, sanded or altered in such a way that excessive and/or significant particulates and/or dusts may be generated: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- **Other Information:** When using, do not eat, drink or smoke.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance: Solid Concrete	Vapour pressure: No data available
Color: Usually grey	Vapour density: No data available
Odor: Odorless	Specific Gravity: 2.1 – 2.4
Melting/Freezing point: No data available	Water solubility: Slight: Insoluable
Initial boiling point & range: No data available	Auto-ignition temp.: No data available
Flash point: No data available	Decomposition temp.: No data available
Evaporation rate: No data available	Explosive properties: No data available
Flammability (solid, gas): Not flammable	pH: 12 - 13
Upper/Lower flammability: No data available or explosive limits	Oxidizing properties: This substance is classified as an oxidizer with the Category 3

9.2 Other safety information
No data available

Section 10 – Stability and Reactivity

10.1 Reactivity Not reactive under normal use.
10.2 Chemical stability Stable under normal conditions of use.
10.3 Possibility of hazardous reactions No data available
10.4 Conditions to avoid Direct sunlight, extremely high or low temperatures, and incompatible materials.
10.5 Incompatible materials Strong acids, strong bases, strong oxidizers. Hydrofluoric acid.
10.6 Hazardous decomposition products Crystalline silica (quartz) will dissolve in hydrofluoric acid and produce a corrosive gas – silicon tetrafluoride. Calcium oxide.

Section 11 – Toxicological Information

Primary Routes of Exposure:
Inhalation and contact with the eyes and skin.

- **Acute toxicity:** Not classified
- **Skin corrosion/irritation:** Causes skin irritation.
- **Serious eye damage/eye irritation:** Causes serious eye irritation.
- **Respiratory sensitization:** Not classified.
- **Skin sensitization:** Not classified.
- **Germ cell Mutagenicity:** Dust may cause respiratory tract irritation.
- **Carcinogenicity:** Respirable dust may cause cancer (Inhalation).
- **Reproductive toxicity:** Not classified
- **Specific target organ toxicity - single exposure:** May cause respiratory irritation
- **Specific target organ- toxicity – repeated exposure:** May causes damage to organs (lungs, respiratory system) through prolonged or repeated exposure (inhalation)
- **Aspiration toxicity:** Not classified (not applicable- solid material)

Section 12 – Ecological Information

12.1 **Toxicity** No data available
12.2 **Persistence** No data available
12.3 **Bioaccumulative potential** No data available
12.4 **Mobility in soil** No data available
12.5 **Other adverse effects** No data available

Section 13 – Disposal Considerations

13.1 Waste Treatment Methods
Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14 – Transport Information

DOT (US)
UN number: Not regulated
Proper shipping name: Not regulated
Packing Group: Not Regulated
Hazard Class: Not regulated

Section 15 – Regulatory Information

15.1 TSCA Status Not listed
15.2 §302 Components Not listed
15.3 §304 Components Not listed
15.4 §313 Components Not listed
15.5 California Prop. 65 This product contains a chemical (crystalline silica, chromium, cobalt, nickel) known to the State of California to cause cancer.

Section 16 – Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

This SDS is prepared to comply with the Globally Harmonized Systems of Classification and Labelling of Chemicals (GHS) as prescribed by the Unites States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 19910.1200).

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