Safety Data Sheet (SDS)

1. MANUFACTURER AND CHEMICAL SUBSTANCE IDENTIFICATION

Product name: Polished Concrete S80
Product description: Hydraulic self-leveling mortar for exposed, polished flooring. Supplied dry; mix with water before application.
Chemical substance name: MODIFIED CALCIUM SULFOALUMINATE CEMENT-BASED MORTAR WITH SILICA AGGREGATES AND CHEMICAL ADDITIVES

GENERAL MANUFACTURER DATA

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IMPORTER INFORMATION
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2. HAZARD IDENTIFICATION

Classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Physical hazards: Not classified.

Health hazards:

- **Skin irritation** — Category 2.
- **Skin sensitization** — Category 1.
- **Serious eye damage** — Category 1.
- **Specific target organ toxicity** — Single exposure — Category 3 (respiratory irritation)
- **Carcinogenicity** — Category 1A.
- **Specific target organ toxicity** — Repeated exposure — Category 1 (lungs, inhalation).

Label elements



Signal Word: DANGER

Hazard statement

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.
- H350: May cause cancer by inhalation.
- H372: Causes damage to lungs through prolonged or repeated exposure by inhalation.

Precautionary statements

Prevention:

- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Do not breathe dust. Use only outdoors or in a well-ventilated area.
- Wash hands and exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves, protective clothing and eye/face protection. Refer to Section 8 for respiratory protection requirements.
- Contaminated work clothing must not be allowed out of the workplace.

Response:

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.

Storage:

- Store locked up in a dry, well-ventilated location. Keep containers tightly closed and protected from moisture.

Disposal:

- Dispose of contents and containers in accordance with applicable local, state and federal regulations.

3. COMPOSITION / INGREDIENTS INFORMATION

COMPONENTS	CONCENTRATION	CAS
SILICA SAND (CRYSTALLINE SILICA)	20 - 60%	14808-60-7
CALCIUM SULFOALUMINATE CEMENT	20 - 40%	960375-09-1
PORTLAND CEMENT	10 - 40%	65997-15-1

Exact ingredient concentrations are withheld as proprietary trade secrets under 29 CFR 1910.1200(i). Required hazard information is provided in this SDS, and confidential composition details will be disclosed when required by that regulation.

The cementitious binder contains calcium-based mineral phases incorporating aluminum, silicon, sulfur and iron. Raw-material sources may introduce minor constituents and naturally occurring impurities. Their identity and potential health effects are evaluated using supplier information and available analytical data.

4. FIRST AID

Inhalation:

Move the affected person to fresh air and keep comfortable for breathing. Avoid further exposure to dust. Seek medical attention if coughing, irritation or other symptoms persist. If breathing is difficult, obtain immediate medical assistance. If the person is not breathing, call emergency services and provide CPR if trained.

Skin contact:

Gently remove loose dry material without generating airborne dust. Remove contaminated clothing and footwear. Wash affected skin thoroughly with soap and plenty of water. If irritation, rash, pain or blistering develops, seek medical attention. Wash contaminated clothing before reuse and clean footwear thoroughly.

Eye contact:

Immediately flush eyes with gently flowing clean water for at least 20 minutes, holding the eyelids open. Remove contact lenses if present and easy to do, then continue rinsing. Do not rub the eyes or attempt to neutralize the material. Immediately contact a POISON CENTER or doctor. Do not delay medical attention while waiting for symptoms to develop.

Ingestion:

Rinse the mouth thoroughly with water. Do not induce vomiting. Contact a POISON CENTER or doctor promptly for advice. Never give anything by mouth to an unconscious person or anyone having difficulty swallowing

Most important symptoms and effects, acute and delayed:

Dust may cause coughing, sneezing and irritation of the nose and throat. Skin exposure may cause dryness, redness, itching or an allergic rash. Eye contact may cause severe pain, tearing, redness, blurred vision and permanent injury. Swallowing may irritate the mouth, throat and gastrointestinal tract.

Repeated or prolonged inhalation of respirable crystalline silica may cause silicosis, lung cancer and other chronic respiratory disease. Harmful exposure may occur without immediate symptoms.

Indication of immediate medical attention and special treatment:

Immediate medical attention is required following eye exposure or significant breathing difficulty. Treat according to symptoms and the circumstances of exposure. Provide this SDS to the treating healthcare professional.

Protection of first-aid responders:

Avoid exposure to airborne dust and direct contact with contaminated material. Wear appropriate protective equipment as described in Section 8. Do not enter a heavily contaminated area without suitable respiratory protection.

5. FIRE FIGHTING:

Flash point: not available.

Autoignition temperature: not available.

Lower flammability/explosivity limits: not available.

Upper flammability/explosivity limits: not available.

Suitable extinguishing methods: water, carbon dioxide, foam, powder.

Personal protective equipment for firefighters: wear personal protective equipment.

Formation of combustion products or gases: fire can release toxic and irritating gases.

6. ACCIDENTAL RELEASE OR SPILL PROCEDURES

Remove dry material using a shovel or vacuum, avoid raising dust, inhalation and prolonged skin contact. Use the appropriate personal equipment, the use of safety glasses, long-sleeved clothing and gloves are recommended.

DO NOT POUR INTO SEWER, SURFACE WATER AND GROUNDWATER

7. HANDLING AND STORAGE

Precautions for safe handling:

Minimize dust generation during bag opening, material transfer and mixing. Open bags carefully and avoid pouring from excessive heights. Use adequate ventilation and local exhaust with suitable dust collection.

Grinding, cutting and polishing hardened material may release respirable crystalline silica. Use wet methods or equipment fitted with effective dust extraction, as appropriate for the operation. Hazardous airborne dust may be present without a visible dust cloud.

Use HEPA-filtered vacuum equipment or other effective methods for cleanup. Do not dry sweep or use compressed air where these activities could increase exposure to respirable crystalline silica.

Do not breathe dust. Avoid contact with skin and eyes, including contact with wet mortar. Wear the protective equipment specified in Section 8. Do not eat, drink or smoke during handling. Wash thoroughly after use.

Conditions for safe storage:

Keep bags tightly closed in a dry, covered location, protected from water, leaks and humidity. Store on pallets, off the ground. Reseal partially used bags promptly. Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSHA PEL — 8-hour TWA	ACGIH TLV — 8-hour TWA	NIOSH REL — up to 10-hour TWA
Crystalline silica (quartz) CAS 14808-60-7	0.05 mg/m³ — respirable fraction	0.025 mg/m³ respirable fraction	0.05 mg/m³ respirable fraction
Portland cement CAS 65997-15-1	15 mg/m³ total dust; 5 mg/m³ respirable fraction	1 mg/m³ respirable fraction	10 mg/m³ total dust; 5 mg/m³ respirable fraction
CSA cement CAS 960375-09-1	15 mg/m³ total dust; 5 mg/m³ respirable fraction*	No CSA-specific limit verified.	No CSA-specific limit verified.

***The OSHA values of 15 mg/m³ (total dust) and 5 mg/m³ (respirable fraction)** are general limits for particulates not otherwise regulated, where applicable. They are not specific exposure limits for calcium sulfoaluminate cement. Apply any constituent-specific limits, including those for respirable crystalline silica, independently.

OSHA action level: 0.025 mg/m³, respirable fraction, as an 8-hour TWA.

Additional OSHA limit: Portland cement: 50 mppcf under Table Z-3.

TWA: Time-weighted average. mppcf: Million particles per cubic foot.

The Portland cement ACGIH limit applies to material containing no asbestos and less than 1% crystalline silica.

Appropriate engineering controls:
Provide adequate ventilation and local exhaust where dust is generated, particularly during bag opening, mixing and cleanup. Maintain airborne concentrations below applicable occupational exposure limits. Minimize dust generation. Provide accessible eyewash facilities and washing water.

Eye/face protection:
Wear chemical splash goggles. Use a face shield in addition to goggles where splashing of wet material may occur.

Hand protection:
Wear impervious, alkali-resistant protective gloves suitable for cementitious materials. Select gloves according to the manufacturer's recommendations and exposure conditions.

Skin/body protection:
Wear long-sleeved clothing, long pants and protective footwear. Use waterproof boots and additional impervious protection when handling wet material. Avoid kneeling in fresh mortar or allowing wet material to remain against the skin.

Respiratory protection:
When engineering controls cannot maintain airborne concentrations below applicable exposure limits, use a NIOSH-approved particulate respirator selected according to the exposure assessment. Required respirator use must comply with OSHA 29 CFR 1910.134, including medical evaluation, fit testing where applicable, and training.

General hygiene measures:
Avoid breathing dust and contact with skin and eyes. Do not eat, drink or smoke while handling the product. Wash thoroughly after handling. Remove contaminated clothing and footwear promptly and clean before reuse. Contaminated work clothing must not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property group	Parameter	Information
Product appearance	**Physical state and form**	Solid; dry mortar powder
	Color	Variant-dependent
	Odor	Not available
	Odor threshold	Not available
Material characteristics	**Density and/or relative density**	Not available
	Particle characteristics	Not available
	Solubility in water	Slightly soluble
	pH	11 when mixed with water
	Kinematic viscosity	Not applicable to the dry powder
Thermal properties	**Melting point/freezing point**	Not available
	Initial boiling point and boiling range	Not available
	Decomposition temperature	Not available
Fire and explosion properties	**Flammability**	Not available
	Flash point	Not available
	Auto-ignition temperature	Not available
	Lower and upper explosion/flammability limits	Not available
Volatility and partitioning	**Vapor pressure**	Not available
	Relative vapor density	Not available
	Evaporation rate	Not available
	Partition coefficient: n-octanol/water	Not available
	VOC content	Not available

10. STABILITY AND REACTIVITY

Reactivity: Mixing with water initiates hydraulic setting and hardening. Heat may develop during hydration; do not allow setting material to remain against the skin.

Stability / conditions to avoid: Protect dry material from unintended moisture and water. Maintain the storage conditions specified in Section 7.

Hazardous reactions / incompatible materials: Not established for the complete mixture.

Hazardous decomposition products: Not established.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure: Inhalation, skin contact, eye contact and ingestion.

Inhalation: Dust may cause respiratory tract irritation, coughing and sneezing.

Skin contact: Causes skin irritation. May cause an allergic skin reaction. Symptoms may include redness, itching, rash and dermatitis.

Eye contact: Causes serious eye damage. Symptoms may include pain, redness, tearing and blurred vision. Permanent eye damage may occur.

Ingestion: May cause irritation and gastrointestinal discomfort.

Immediate and delayed effects: Dust may cause respiratory irritation, coughing and sneezing. Skin contact causes irritation and may trigger an allergic reaction, including delayed redness, itching or rash. Eye contact causes serious eye damage and may result in permanent visual impairment. Prolonged or repeated inhalation of respirable crystalline silica causes lung damage and may cause silicosis and lung cancer. These chronic effects may develop without immediate symptoms.

Acute toxicity: No acute toxicity test data are available for the mixture as a whole.

Skin corrosion/irritation: Skin irritation — Category 2.

Serious eye damage/eye irritation: Serious eye damage — Category 1.

Skin sensitization: Skin sensitization — Category 1.

Specific target organ toxicity — Single exposure: Category 3 (respiratory irritation). May cause respiratory irritation.

Carcinogenicity: Category 1A. May cause cancer by inhalation. This classification is based on the crystalline silica (quartz) content and the potential release of respirable particles during handling and mechanical processing.

Reproductive toxicity: No reproductive toxicity test data are available for the mixture as a whole. Assessment of potential effects on fertility and development must also consider available information on individual ingredients.

Specific target organ toxicity — Repeated exposure: Category 1 (lungs, inhalation). Causes damage to lungs through prolonged or repeated exposure by inhalation. Repeated exposure to respirable crystalline silica may cause silicosis, an irreversible lung disease.

Chronic Effects of Repeated or Prolonged Exposure to Crystalline Silica: Repeated inhalation of respirable crystalline silica dust may cause silicosis, an irreversible, progressive lung disease characterized by inflammation and fibrosis of lung tissue. Symptoms may include persistent cough, shortness of breath, fatigue, and chest discomfort. Exposure to respirable crystalline silica is also associated with an increased risk of lung cancer, chronic obstructive pulmonary disease (COPD), kidney disease, and certain autoimmune disorders. Silicosis may progress even after exposure has ceased. The risk depends on the concentration of respirable crystalline silica in the air, particle size, duration and frequency of exposure, and effectiveness of exposure controls. The International Agency for Research on Cancer (IARC) classifies inhaled crystalline silica in the form of quartz or cristobalite from occupational sources as carcinogenic to humans (Group 1).

Other toxicological endpoints: No mixture-specific test data are available for respiratory sensitization, germ cell mutagenicity or aspiration hazard. Classification must also consider available ingredient data.

12. ECOLOGICAL INFORMATION

- Consult the environmental regulations in force, it should not be released into sewers or drainage systems.
- Empty packages can be recycled.

13. DISPOSAL CONSIDERATIONS

NEVER POUR INTO THE DRAIN, EITHER ON THE GROUND OR ON ANY SURFACE WITH WATER.

All discharge practices must comply with Federal, State and local Laws and Regulations, these regulations may vary by location.

AS A SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF THE RAW MATERIALS USED IN THIS PRODUCT. THE INFORMATION PRESENTED IN THIS DOCUMENT REFERS ONLY TO THE FINISHED PRODUCT ACCORDING TO THE EXPECTED SHIPPING CONDITIONS AND DESCRIBED IN THE SAFETY DATA SHEET SECTION.

14. TRANSPORT INFORMATION

DOT (U.S. ground transportation): Not regulated as dangerous goods.

IATA (air transportation): Not regulated as dangerous goods.

IMDG (sea transportation): Not regulated as dangerous goods.

UN number: Not applicable.

UN proper shipping name: Not applicable.

Transport hazard class(es): Not applicable.

Packing group: Not applicable.

Special precautions: Keep bags dry, securely closed and protected from damage. Secure the load to prevent movement during transportation.

15. REGULATORY INFORMATION

U.S. OSHA Hazard Communication Standard — 29 CFR 1910.1200:

This product is classified as a hazardous chemical. Refer to Section 2 for hazard classifications and label elements.

OSHA Respirable Crystalline Silica Standards

Occupational exposure to respirable crystalline silica is subject to 29 CFR 1910.1053 for general industry and 29 CFR 1926.1153 for construction, as applicable.

EPCRA / SARA Sections 311 and 312

Based on the classifications in Section 2, the applicable health hazard categories are:

- Skin corrosion or irritation.
- Serious eye damage or eye irritation.
- Respiratory or skin sensitization — skin sensitization.
- Carcinogenicity.
- Specific target organ toxicity — single and repeated exposure.

Reporting obligations depend on the quantities present at each facility, applicable thresholds and exemptions.

California Proposition 65

This product contains crystalline silica. Crystalline silica in the form of airborne particles of respirable size is listed by the State of California as causing cancer. Handling the dry product and grinding, cutting or polishing hardened material may generate exposure to respirable crystalline silica. See www.P65Warnings.ca.gov.

Toxic Substances Control Act (TSCA):

All components are listed as active on the TSCA Inventory or are exempt from inventory listing requirements.

16. ADDITIONAL INFORMATION

Revision date: 22-Oct-2026

Version: 1.0

Revision summary: Updated hazard communication, first-aid measures and safety information.

Disclaimer

This Safety Data Sheet reflects the information available to TECNODRY as of the revision date and is intended to support safe handling, storage, use and disposal of the identified product. It does not constitute a product specification or performance warranty. Users must assess their workplace conditions and implement appropriate exposure controls and protective measures. Additional hazards may arise when the product is combined with other materials or used outside its intended applications. This SDS may be reproduced and shared without alteration for occupational health, safety and emergency response purposes

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