

TAMAX-SDS-04 — Safety Data Sheet for White Cement

TAMAX VENTURES LTD. — SAFETY DATA SHEET (SDS)

- **Document ID:** TMX-SDS-04
- **Chemical Name:** Portland Limestone Cement (CEM II/A-L 42.5 N)
- **Trade Name / Product:** TAMAX CEM II/A-L 42.5 N White Cement
- **Company:** Tamax Ventures Ltd. (Kansarawdo Mampong Road, Yankey Junction, Takoradi, Ghana)
- **Emergency Contact (Ghana):** 191 (National Fire/Ambulance services) or +233-31-2092199

SECTION 1: Chemical Product & Company Identification

- **Synonyms:** White Portland Cement, Hydraulic cement.
- **Primary Uses:** Structural building solutions, decorative concrete, architectural finishes, masonry finishing, and grouting.

SECTION 2: Composition / Information on Ingredients

- **Major Ingredients:** Portland cement clinker, Limestone.
- **Trace Constituents:** Calcium sulfate (gypsum), trace amounts of naturally occurring heavy metals.

SECTION 3: Hazards Identification

[!WARNING] Xi — IRRITANT STATUS

- **R37:** Irritating to the respiratory system.
- **R38:** Irritating to skin.
- **R41:** Risk of serious damage to eyes.
- **R43:** May cause sensitization by skin contact.
- **Alkaline Burns Warning:** When mixed with water, cement becomes highly alkaline (pH > 12) and can cause severe chemical skin burns and eye damage.

SECTION 4: First Aid Measures

Eye Exposure

- **Action:** Do not rub eyes. Immediately flush eyes with large quantities of fresh running water for **15 to 20 minutes**. Ensure eyelids are held wide apart.
- **Target:** Prevent cornea damage. **Seek immediate medical attention.**

Inhalation

- **Action:** Move the affected person to fresh air. Clean nose and throat. Seek medical attention if discomfort persists.

Skin Contact

- **Action:** Wash the contaminated area immediately with plenty of soap and water. Remove all contaminated clothing and footwear. If skin irritation or burns occur, consult a physician.

Ingestion

- **Action:** Rinse the mouth thoroughly. Drink plenty of water. **Do NOT induce vomiting.** Seek immediate medical attention.

SECTION 5: Fire-Fighting Measures

- **Flammability:** The substance is **non-flammable** and non-combustible.
- **Extinguishing Media:** Not applicable. Product does not burn.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear protective gear. Avoid inhaling dust and contact with skin/eyes.
- **Environmental Precautions:** Prevent entry into drains, sewers, or waterways.
- **Spill Cleanup:** Clean up dry spills using a vacuum or shovel. Do not sweep to avoid airborne dust. For wet cement, allow to harden and dispose of as solid waste.

SECTION 7: Handling & Storage

Handling

- Avoid direct contact with eyes and skin. Minimize dust generation. Ensure adequate ventilation.

Storage

- Store in dry, weather-tight environments off the ground (e.g., on timber pallets). Protect from moisture to prevent pre-hydration and clumping.

SECTION 8: Exposure Controls & Personal Protection

- **Occupational Exposure Standard (OES):** 10 mg/m³ (total inhalable dust), 4 mg/m³ (respirable dust) (8-hour TWA).

Personal Protective Equipment (PPE)

REQUIRED PPE GEAR	
	Mask: FFP2 Respirator
	Eyes: Tight Goggles
	Hands: Alkali-Resistant

- **Skin Protection:** Wear long-sleeved clothing and trousers. Avoid kneeling in wet cement.

SECTION 9: Physical & Chemical Properties

- **Appearance:** Fine white powder.
- **Odor:** Odorless.
- **pH value:** 11.0 – 13.5 (when mixed with water).
- **Specific Gravity:** ~ 3.1 g/cm³.
- **Solubility:** Slight (0.1 - 1.0 g/l in water), reacts with water to form solid hydrates.

SECTION 10: Toxicological & Ecological Information

- **Toxicological Profile:** Can cause severe irritation and chemical burns to skin and eyes when wet. Prolonged exposure to airborne dust may cause respiratory issues. May cause allergic contact dermatitis.
- **Ecotoxicity:** Not intrinsically toxic to the environment, but the addition of large amounts of cement to water raises pH and can be toxic to aquatic life.