



FIRED ^{UP} KILNS

and pottery supplies

SAFETY DATA SHEET – SHIRABOND MORTAR

(primarily manufactured by [Shinagawa Refractories](#)) is a high-temperature, air-setting compound containing crystalline silica (quartz), which presents critical health hazards when dust is generated. [1, 2, 3]

Identification of product

a - Product identifier used on the label

Tradenames: Shirabond Refractory Mortar,

c - Recommended use of the chemical and restrictions on use

High Temperature Thermal Insulation

d - Name, address, and telephone number

Fired Up Kilns	Emergency Telephone Number:
20 Helen Street, Heidelberg West, 3081, Victoria, Australia www.firedupkilns.com.au	03 7013 9025

Hazard Identification

Signal Word: DANGER

GHS Classification:

Carcinogenicity: Category 1A (via inhalation of dust)

Specific Target Organ Toxicity — Repeated Exposure: Category 1 (Lungs/Silicosis)

Skin Corrosion / Irritation: Category 2

Serious Eye Damage / Eye Irritation: Category 1 / 2B [3, 5, 6]

Hazard Ingredients & Composition

- **Crystalline Silica (Quartz / Cristobalite):** Acts as a primary component. Prolonged or repeated inhalation of respirable dust can cause permanent lung damage (silicosis) and cancer.
- **Aluminosilicates / Clay / Binders:** Provide high heat-resistance but can act as physical irritants to skin, eyes, and lungs.
- **Alkaline Sodium Silicate Solution:** Mixed variations or wet forms create a high pH solution that can chemically burn or dry tissue exothermically. [2, 3, 7, 8, 9]

First Aid Measures

👁️ **Eye Contact:** Immediately rinse cautiously with clean running water for at least 15 minutes, holding eyelids open. Remove contact lenses if simple to do. Seek instant medical advice if irritation/burning persists.

🧼 **Skin Contact:** Wash immediately with plenty of soap and water. Take off contaminated clothing. If an allergic reaction or persistent irritation happens, visit a doctor.

😷 **Inhalation:** Move the affected worker to fresh air. If coughing or breathing difficulty continues, request immediate medical care.

❌ **Ingestion:** Rinse the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person; contact emergency medical services or a poison center. [5, 10, 11, 12, 13]

Fire & Explosion Data

- **Flammability: Non-combustible.** Material will not burn or explode.
- **Extinguishing Media:** Use media appropriate for the surrounding fire (e.g., water spray, carbon dioxide, dry chemical).
- **Special Hazards:** None known. No special firefighting clothing or self-contained apparatus is uniquely required unless requested for ambient fire risks. [2, 14, 15, 16, 17]

Accidental Release

- **Personal Precautions:** Wear mandatory personal protective gear (see Section 6). Avoid creating or breathing airborne dust.
- **Clean-up Methods:** Pick up dry materials using wet-sweeping or a HEPA-filtered industrial vacuum. Do not dry-sweep or use compressed air, which blows dangerous silica particles back into the workspace. [12, 18, 19, 20, 21]

Exposure Controls & Personal Protection [22]

- **Engineering Controls:** Use local exhaust ventilation or dust collection to keep airborne quartz below the permissible legal threshold.
- **Respiratory Protection:** Wear a NIOSH-approved respirator (such as an N95 or P100 particulate mask) whenever handling dry mix or generating dust.
- **Eye & Face Protection:** Wear tightly fitting safety goggles to prevent physical dust scratches or alkaline solution burns.
- **Skin Protection:** Wear water-resistant long sleeves and protective gloves (such as heavy nitrile or rubber) to avoid severe drying or cracking. [8, 12, 14, 15, 19]

Handling & Storage

- **Safe Handling:** Do not eat, drink, or smoke when handling mortar. Avoid direct skin or eye contact. Wash hands thoroughly before taking breaks or stepping away.
- **Storage Conditions:** Keep containers tightly closed when not in use. Store locked up in a cool, dry, well-ventilated space off the ground to prevent moisture accumulation from ruining dry stock. [5, 12, 18, 19, 23]

16 - Other Information

Date of Issue: July 2026

**AUSTRALIAN POISONS INFORMATION CENTRE 24
HOUR SERVICE 13 11 26
POLICE / FIRE / AMBULANCE 000**

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.