



**Section 1 – Product and Company Identification**

**Manufacturer's name and technical support info:**

Tagawa Sangyo Co., Ltd.  
1924 Yugeta, Tagawa City, Fukuoka Pref.,  
826-0041 Japan  
T: +81-905-285-0855 | F: +81-947-44-8484  
info@shikkui.com | http://www.shikkui.com

**Product line name:** Shikkui Surface Coatings

**Product names:** Shikkui Sora, Shikkui Sora Color

**Product use:** natural lime plaster for walls and ceiling

**Section 2 – Component Mixture**

Component name	Formula	CAS #	RTECS #
Calcium Hydroxide *	Ca(OH)2	1305-62-0	EW2800000
Calcium Carbonate *	CaCO3	471-34-1	FF9335000
Calcium Silicate	CaSiO3	1344-95-2	VV9150000
Vinyl Acetate	-	-	-
Seaweed Extracts	-	-	-
Pulp Fiber	-	-	-
Inorganic Color Pigments **	-	-	-

\* Major components

\*\* Only in Shikkui Sora Color. MSDS of color pigments available upon request.

**Section 3 – Hazards Identification**

**Emergency overview**

Shikkui Sora is a powder that possesses little immediate hazard. A single short-term exposure to the dry powder is not likely to cause serious harm. However, exposure of sufficient duration to wet Shikkui Sora, due to its high alkalinity, can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to dry Shikkui Sora.

**R-phrases:**

- R36: Irritating to eyes.
- R37: Irritating to respiratory system.
- R38: Irritating to skin.
- R41: Risk of serious damage to eyes.
- R66: Repeated exposure may cause skin dryness or cracking.

**S-phrases**

- S2: Keep out of the reach of children.
- S8: Keep container dry.
- S22: Do not breathe dust.
- S24: Avoid contact with skin.
- S25: Avoid contact with eyes.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28: After contact with skin, wash immediately with plenty of cold water.
- S36: Wear suitable protective clothing.
- S37: Wear suitable gloves.
- S38: In case of insufficient ventilation wear suitable respiratory equipment.
- S39: Wear eye/face protection.
- S46: If swallowed, seek medical advice immediately and show this container or label.

Irritating to gastro-intestinal tract. Shikkui Sora should not be eaten.

**Section 4 – First Aid and Measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water and seek medical advice
<b>Skin Contact</b>	Wash immediately with plenty of cold water
<b>Inhalation</b>	Rinse throat and nose with water. Breathe fresh air. If necessary, get artificial respiration. Seek medical attention.
<b>Ingestion</b>	Rinse mouth with water and drink plenty of water. Do NOT induce vomiting unless directed to do so by medical personnel. Seek medical attention if symptoms appear.

**Section 5 – Fire Fighting Measures**

Non-flammable. Any method suitable for extinguishing surrounding fire.

**Section 6 – Accidental Release Measures**

Sweep spilled substance into containers for use if possible, or disposal.

**Section 7 - Handling and Storage**

Wear recommended personal protective equipment when handling. Store material in a cool, dry, ventilated area.

**Section 8 – Exposure Controls and Personal Protection**

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Avoid eye and skin contact. Avoid breathing vapors. Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved respirator or equivalent. Gloves and other clothing to prevent skin exposure.

**Section 9 – Physical and Chemical Properties**

- Appearance:** Fine, white powder
- Appearance (when applied):** Smooth, flat or relief surface
- Physical state:** Solid (powder)
- Shore D Hardness:** 61-62 (ASTM D2240)
- Odor:** None
- Solubility:** Very slightly soluble in water
- Flash point:** Non-flammable (Class A rating, ASTM E84)
- Melting point:** 580°C/1076°F (calcium hydroxide), 825°C/1517°F (calcium carbonate)
- Vapor pressure:** Not applicable
- Vapor density:** Not applicable
- Specific gravity:** 2.24 (calcium hydroxide), 2.70 (calcium carbonate)
- pH:** 12-13
- Evaporation rate:** Not applicable

#### Section 10 – Stability and Reactivity Information

**Stability:** The product is stable.

**Reaction with various substances:** Reacts with strong acids generating carbon dioxide.

#### Section 11 – Toxicological Information

**Toxicity:** The product itself and its products of degradation are not toxic.

**LD50 (rat):** 7340 mg/kg (calcium hydroxide), 6450 mg/kg (calcium carbonate)

#### Section 12 – Ecological Information

**Ecotoxicity:** No recognized unusual toxicity to plants or animals.

**Relevant Physical and Chemical Properties:** See sections 9 and 10.

**VOC:** 0.7 Grams/Liter, 0.0 Pounds/Gallon (ASTM D3960), which implies a Zero-VOC material

**Other properties:** mold/mildew resistance (Rating 10, ASTM D3273/D3274)

**Certification:** Cradle to Cradle (Silver)

#### Section 13 – Disposal Considerations

Dispose of in accordance with federal, state or local regulations.

100% recyclable either as fertilizer and soil conditioner, or as agent for improving strength and stability of land.

#### Section 14 – Transport Information

**DOT Classification:** Not regulated

**Special Provisions for Transport:** Not applicable

#### Section 15 – Other Regulatory Information

**Risk and Safety Phrases:** See section 3.

#### Section 16 – Other Information

**MSDS revision date:** 16 Jan 2012

**Other important information:** Shikkui Sora should be used by knowledgeable persons.

While the information provided in this material safety data sheet is believed to provide a useful summary of the hazards of Shikkui Sora as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product.

THE MANUFACTURER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY Tagawa Sangyo except that the product shall conform to contracted specifications. The information provided herein was believed by Tagawa Sangyo to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of the product, and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or nondelivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall

Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Shikkui Sora to produce other products. Users should review other relevant material safety data sheets before working with this or any other lime-based products.

When used within the Shikkui system, Shikkui Sora is covered by a corresponding limited 10-year warranty. Please ask manufacturer for details.