

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)	<i>Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.</i>
Clay Roof Tile	

Section I

Manufacturer's name	Emergency Telephone Number
Maruhachi Ceramics of America, Inc.	(951) 736-9590
Address (Number, Street, City, State and ZIP Code)	Telephone Number for Information
1985 Sampson Ave.	(951) 736-9590
Corona, CA 92879	Date Prepared March 20, 1992
	Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ignition Loss (%)				4.62
Silica	6 mg/m ³			65.75
Alumina	10 mg/m ³			16.29
Iron	10 mg/m ³			5.85
Titanium	10 mg/m ³			0.76
Calcium	5 mg/m ³			1.20
Magnesium	10 mg/m ³			1.36
Kalium	N/A			2.67
Natrium	N/A			1.12

Section III—Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	N/A		
Appearance and Odor	Pre-fire Tile Shape – No Odor		

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	LEL	N/A	UEL	N/A
Extinguishing Media	N/A					
Special Fire Fighting Procedures	N/A					
Unusual Fire and Explosion Hazards	N/A					

(Reproduce locally)

N/A

OSHA 174 Sept. 1985

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid	N/A
	Stable	X		
Incompatibility (<i>Materials to Avoid</i>)				
N/A				
Hazardous Decomposition or Byproducts				
Hazardous Polymerization	May Occur		Conditions to Avoid	N/A
	Will Not Occur	X		

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation?	N/A	Skin?	N/A	Ingestion?	N/A
Health Hazards (<i>Acute and Chronic</i>)						
N/A						
Carcinogenicity	NTP?	N/A	IARC Monographs?	N/A	OSHA Regulated?	N/A
Signs and Symptoms of Exposure						
On tear out of used material of the use of dry saw cut, dusts can be generated which contain free silica.						
Medical Conditions						
Generally Aggravated by Exposure Long term exposure may lead to silicosis or other respiratory disease.						
Wear NIOSH Approved dust mask.						
Emergency and First Aid Procedures						
N/A						

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled	
Normal tile handling	
Waste Disposal Method	
Normal land fill	
Precautions to Be Taken in Handling and Storing	
Store in dry conditions	
Other Precautions	
N/A	

Section VII—Control Measures

Respiratory Protection (<i>Specify Type</i>)		On tear out or a dry saw cut, use NIOSH approved dust mask.		
Ventilation	Local Exhaust	X	Special	N/A
	Mechanical (<i>General</i>)	N/A	Other	N/A
Protective Gloves	Yes	Eye Protection	Safety Glasses	
Other Protective Clothing or Equipment				
N/A				
Work/Hygienic Practices				
N/A				