

SIAL

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MATERIAL SAFETY DATA SHEET**SECTION 1 IDENTIFICATION OF PRODUCT**

Description	Earthenware Slip
Product Name	TERRA COTTA Slip
Used For	Ceramic casting

SECTION 2 HAZARDOUS INGREDIENTS

Hazardous ingredient	%	CAS Number	Specification
Respirable Free Silica (Quartz)	< 4.5 %	14808-60-7	
Barium Carbonate	< 0.03 %	513-77-9	

*Note : Free Silica is not a hazard in moist or wet form ; it is only a hazard if slip is dry and dust is generated

SECTION 3 PHYSICAL DATA

Appearance:	Liquid
Odor:	None
Color:	Brown
Density:	1780 g/l (± 5 g/l)
Melting Point:	-2°C
Boiling Point:	102°C
Vapor Pressure:	N/A
Solubility in Water:	Unlimited
Percent Volatile:	N/A
pH:	8.0 (± 0.5)

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

None

SECTION 5 REACTIVITY DATA

General Reactivity:	None
Incompatibility:	None

SECTION 6 HEALTH HAZARD INFORMATION

Inhalation:	None; No special protection required
Ingestion:	None
Skin Contact:	None
Eye Contact:	Flush with water; consult physician if irritation persist
Dried Dust Inhalation:	Long term respiratory difficulties (silicosis). Wear NIOSH/MSHA/OSHA approved respirator, if handling or processing dried greenware

SECTION 7**PROCEDURES DISPOSAL REQUIREMENTS**

- Steps to be taken IN CASE MATERIAL IS RELEASED OR SPILLED:

Material is not dangerous if spilled. Simply wash away with water. If uncontaminated, recover and use. Avoid creating dust if dried. Avoid breathing dust. Wear a NIOSH/MSHA/OSHA approved respirator. Good housekeeping practices recommended.

- WASTE AND CONTAINER DISPOSAL METHODS:

Disposal methods for non-hazardous materials should be complied with. May be buried in approved land disposal facility, in accordance with Federal, State/Provincial, and local regulations. The ceramic slip is not regulated by DOT.

**SECTION 8
INFORMATION****SPECIAL PROTECTION**

Eye Protection:

Safety glasses optional, but recommended

Protective Gloves:

Optional, but recommended

Respiratory Protection:

None if working with slip;; NIOSH/MSHA/OSHA approved respirator in processing greenware products

Ventilation:

Not necessary

SECTION 9**CHEMICAL COMPOSITION (after firing)**

BaO	0.03%
CaO	1.71%
MgO	14.58%
K ₂ O	0.28%
Na ₂ O	0.16%
Fe ₂ O ₃	2.06%
TiO ₂	0.46%
Al ₂ O ₃	20.97%
SiO ₂	59.25%

SECTION 10**SPECIAL REQUIREMENT/PRECAUTIONS**

Storage Requirements:

Avoid freezing

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