



## MATERIAL SAFETY DATA SHEET

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

### SECTION 1 - PRODUCT IDENTIFICATION AND USE

**PRODUCT IDENTIFIER:** Kiwi Underglaze  
**PRODUCT NATURE** Liquid Inorganic Ceramic Glaze  
**PRODUCT USE:** Ceramic Colourant  
**SUPPLIER:** Waikato Ceramics Ltd T/A Mac's Mud Clay Company  
**STREET ADDRESS:** 1961 Orini Road  
**CITY:** Taupiri  
**COUNTRY** New Zealand  
**TELEPHONE:** +64 7 8568890

### SECTION 2 - HAZARD IDENTIFICATION

**HSNO CLASSIFICATION** CLASSIFIED AS HAZARDOUS IN ACCORDANCE WITH THE FOLLOWING HSNO CLASSIFICATIONS  
6.3A Substances that are irritating to the skin  
6.4A Substances that are irritating to the eye  
6.5A Substances that are respiratory sensitisers  
6.7B Substances that are suspected human carcinogens  
9.1B Substances that are ecotoxic in the aquatic environment  
9.2B Substances that are ecotoxic in the soil environment

**GHS INFORMATION** SIGNAL WORD - 'DANGER'

#### HAZARD STATEMENTS

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H350 May be a human carcinogen  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

#### PREVENTION STATEMENTS

P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use in well ventilated area  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection

#### RESPONSE STATEMENTS

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTRE or doctor/physician if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

#### STORAGE STATEMENTS

P404 Store in a closed container

#### DISPOSAL STATEMENTS

P501 Dispose of contents/container in accordance with relevant regulations.

### SECTION 3 - COMPOSITION

Inorganic materials as follows:

Water	>60%
Clays	10-30%
Silica	<10%
Feldspar	10-30%
Ceramic Stain (see note)	<10%

**Note:** Ceramic stain composition varies based on colour, but may include combinations of:  
Cadmium compounds encased in a zirconium silicate crystal, Selenium,  
Zirconium, Iron, Cobalt, Aluminium, Copper, Chromium, Vanadium

### SECTION 4 - FIRST AID MEASURES

**SKIN** Wash affected area thoroughly with soap and water. If irritation occurs seek medical attention.  
**INHALATION** If inhaled, remove person from the contaminated area. Seek medical attention.  
If in eyes, flush continuously with running water. Remove contact lenses. Continue flushing for several minutes until the contaminants are removed. If symptoms develop, seek medical attention.  
**EYE CONTACT**  
**INGESTION** Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

**FOR ADVICE IN AN EMERGENCY CONTACT THE POISONS HOTLINE ON (+64) 0800 764 766 (NEW ZEALAND)**

### SECTION 5 - FIRE & EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY	No	AUTOIGNITION TEMPERATURE	N/A
MEANS OF EXTINCTION	N/A	HAZARDOUS COMBUSTION PRODUCTS	N/A
SPECIAL PROCEDURES	N/A	<b>EXPLOSION DATA</b>	
FLASHPOINT AND METHOD	N/A	SENSITIVITY TO MECHANICAL IMPACT	N/A
UPPER EXPLOSION LIMIT % BY VOLUME	N/A	SENSITIVITY TO STATIC DISCHARGE	N/A

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

Prevent product from entering drains and waterways.

Contain spillage, then cover/absorb spill with non-combustible absorbent material, collect and place in suitable containers for disposal.

See Sections 8 and 13 for exposure controls and disposal.

**SECTION 7 - HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING	Avoid inhalation or contact with skin and eyes. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the working environment. Maintain high standards of personal hygiene eg. washing hands.
CONDITIONS FOR SAFE STORAGE	Store in a cool, dry, well ventilated area, out of direct sunlight and moisture. Store in suitable, labeled containers. Keep containers tightly closed and out of reach of children.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

ENGINEERING CONTROLS	Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.
PPE	
Eye / Face	Wear splash-proof goggles.
Hands	Wear PVC or rubber gloves.
Body	When using large quantities or where heavy contamination is likely, wear coveralls.
Respiratory	Not required under normal conditions of use, but wear a suitable respiratory mask if product is dry and airborne

**SECTION 9 - PHYSICAL DATA**

PHYSICAL STATE	Liquid	ODOUR & APPEARANCE	Minor odour. Sold as a liquid in various quantities.
ODOUR THRESHOLD	N/A	VAPOUR DENSITY	N/A
SPECIFIC GRAVITY	1.2	VAPOUR PRESSURE	N/A
EVAPORATION RATE	None if sealed	FREEZING POINT	0 degrees
BOILING POINT	100 degrees	SOLUBILITY IN WATER	Contents are not soluble in the carrier water
% VOLATILE BY VOLUME	N/A	COEFF OF WATER/OIL DISTRIBUTION	N/A
pH	Neutral		

**SECTION 10 - REACTIVITY DATA**

CHEMICAL STABILITY	Yes
NON-COMPATIBILITY TO OTHER SUBSTANCE	No

**SECTION 11 - TOXICOLOGICAL PROPERTIES OF MATERIALS**

SKIN CONTACT	Yes	INHALATION CHRONIC	Yes
INHALATION ACUTE	No	EYE CONTACT	Yes
SKIN ABSORPTION	No	INGESTION	Yes
LD OF MATERIAL	Not available	LC OF MATERIAL	Not available
EXPOSURE LIMITS	None	IRRITANCY OF MATERIAL	May cause skin and eye irritation
SENSITIZATION	Not available	SYNERGISTIC MATERIAL	Not available

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

If the product is allowed to dry, any powder product generated is hazardous to health by inhalation. Excessive and repeated inhalation of ceramic stains, silica and feldspars over a prolonged period can cause chronic lung damage. Inhalation of liquid or dusts from dried product may irritate the respiratory system. Repeated exposure to silica dust may lead to silicosis or other serious delayed lung injury. Exposure by inhalation may aggravate pre-existing upper respiratory and lung disorders such as bronchitis and asthma.

Skin contact may cause mechanical irritation causing redness or itching.

Eye contact may cause mechanical irritation including mild abrasion.

Contains materials (Silica) that are potential human carcinogen. May cause cancer by inhalation or ingestion.

**SECTION 12 - ECOLOGICAL INFORMATION**

TOXICITY	Harmful to aquatic life with long lasting effects.
PERSISTENCE AND DEGRADABILITY	No information provided
MOBILITY IN SOIL	No information provided
BIOACCUMULATIVE POTENTIAL	No information provided

OTHER ADVERSE EFFECTS No information provided

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL	For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For large quantities, contact the manufacturer/supplier for additional information. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.
LEGISLATION	Dispose of in accordance with relevant local legislation.

**SECTION 14 - TRANSPORT INFORMATION**

UN NUMBER	Not identified as a dangerous good
PROPER SHIPPING NAME	Not identified as a dangerous good
UN DANGEROUS GOODS CLASS	Not identified as a dangerous good
UN PACKING GROUP	Not identified as a dangerous good
ENVIRONMENTAL HAZARD	Harmful to aquatic life with long lasting effects.
SPECIAL PRECAUTIONS	None

**SECTION 15 - REGULATORY INFORMATION**

CLASSIFICATIONS	Criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).
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**SECTION 15 - OTHER INFORMATION**

PPE The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.