



# SAFETY DATA SHEET

Product Name **TANGERINE LIQUID UNDERGLAZE**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** NORTHCOTE POTTERY SUPPLIES PTY LTD  
**Address** 142 - 144 Weston Street, Brunswick East, VIC, AUSTRALIA, 3057  
**Telephone** (03) 9387 3911  
**Fax** (03) 9387 4011  
**Emergency** (03) 9387 3911  
**Email** npsupplies@bigpond.com  
**Synonym(s)** UG24  
**Use(s)** CERAMIC PIGMENT • COLOURANT • UNDERGLAZE  
**SDS Date** 16 Feb 2010

## 2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC CRITERIA

### RISK PHRASES

R43 May cause sensitisation by skin contact.  
R50 Very toxic to aquatic organisms.

### SAFETY PHRASES

S2 Keep out of reach of children.  
S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S37/39 Wear suitable gloves and eye/face protection.  
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<b>UN No.</b>	None Allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>EPG</b>	None Allocated

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
CALCIUM CHLORIDE ANHYDROUS	Ca-C12	10043-52-4	0.375%
1,2-BENZISOTHIAZOLIN-3-ONE	C7-H5-N-O-S	2634-33-5	0.0425-0.0575%
SODIUM HYDROXIDE	Na-OH	1310-73-2	0.0125-0.0375%
WATER	H2O	7732-18-5	55.675%
KAOLIN	H2-Al2-Si2-O8.H2O	1332-58-7	21.7%
SILICIC ACID, ZIRCONIUM SALT, CADMIUM PIGMENT ENCAPSULATED	Not Available	102184-95-2	<10%
STAIN	Not Available	Not Available	<7%
FRITS, CHEMICALS	Not Available	65997-18-4	4.8%
VANADIUM ZIRCONIUM YELLOW BADDELEYITE	Not Available	68187-01-9	<3.4%

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
SODIUM CARBOXYMETHYL CELLULOSE	C28-H30-O27.Na8	9004-32-4	0.6%
BENTONITE	Not Available	1302-78-9	0.4%

### 4. FIRST AID MEASURES

<b>Eye</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>Advice to Doctor</b>	Treat symptomatically

### 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Non flammable. May evolve toxic gases (carbon/ nitrogen/ sulphur oxides, chlorides, hydrocarbons) when heated to decomposition.
<b>Fire and Explosion</b>	Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing</b>	Prevent contamination of drains or waterways.
<b>Hazchem Code</b>	None Allocated

### 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage</b>	Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all ignition sources.
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### 7. STORAGE AND HANDLING

<b>Storage</b>	Store in a cool, dry, well ventilated area, removed from moisture, oxidising agents, alkalis, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.
<b>Handling</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	Kaolin (Inspirable dust)	ASCC (AUS)	--	10	--	--
	Kaolin (Respirable dust)	ASCC (AUS)	--	2	--	--
	Sodium hydroxide (peak limitation)	ASCC (AUS)	--	2	--	--

SILICIC ACID, ZIRCONIUM SALT, CADMIUM PIGMENT ENCAPSULATED

ES-TWA: 0.01 mg/m3 Cadmium compounds

**Biological Limits** No biological limit allocated.

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**Engineering Controls**      Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PPE**      Wear splash-proof goggles, rubber or PVC gloves and coveralls. Where an inhalation risk exists, wear: a Type AB (Organic and Inorganic gases/vapours) respirator.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	LIQUID	<b>Solubility (Water)</b>	INSOLUBLE
<b>Odour</b>	ODOURLESS	<b>Specific Gravity</b>	NOT AVAILABLE
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	NON FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	NOT RELEVANT
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT RELEVANT
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Evaporation Rate</b>	NOT AVAILABLE		

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under recommended conditions of storage.
<b>Conditions to Avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Material to Avoid</b>	Incompatible with oxidising agents (eg. hypochlorites), alkalis (eg. hydroxides), heat and ignition sources.
<b>Decomposition</b>	May evolve toxic gases (carbon/ nitrogen/ sulphur oxides, chlorides, hydrocarbons) when heated to decomposition.
<b>Hazardous Reactions</b>	Polymerization will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Health Hazard Summary**      Low to moderate toxicity - irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. This product may result in eye or skin irritation with direct contact. Upon dilution, the potential for adverse health effects may be reduced. May cause sensitisation by skin contact.

**Eye**      Irritant. Contact may result in irritation, lacrimation, pain and redness.

**Inhalation**      Irritant. Over exposure may result in irritation of the nose and throat, with coughing.

**Skin**      Irritant. Contact may result in irritation, redness and rash. May cause sensitisation by skin contact.

**Ingestion**      Low to moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea.

**Toxicity Data**      CALCIUM CHLORIDE ANHYDROUS (10043-52-4)  
LD50 (Ingestion): 1000 mg/kg (rat)  
LD50 (Intraperitoneal): 210 mg/kg (mouse)  
LD50 (Intravenous): 42 mg/kg (mouse)  
LD50 (Subcutaneous): 823 mg/kg (mouse)  
LDLo (Ingestion): 1384 mg/kg (rabbit)  
LDLo (Intravenous): 150 mg/kg (guinea pig)  
LDLo (Subcutaneous): 249 mg/kg (cat)  
TDLo (Intravenous): 20 mg/kg/1 hour (woman)  
1,2-BENZISOTHIAZOLIN-3-ONE (2634-33-5)  
LD50 (Ingestion): 1020 mg/kg (rat)  
SODIUM HYDROXIDE (1310-73-2)  
LD50 (Intraperitoneal): 40 mg/kg (mouse)  
LDLo (Ingestion): 1.57 mg/kg (human)  
SODIUM CARBOXYMETHYL CELLULOSE (9004-32-4)  
LD50 (Ingestion): 16000 mg/kg (guinea pig)  
LD50 (Skin): > 2000 mg/kg (rabbit)  
TDLo (Ingestion): 140 mg/kg (rat)

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BENTONITE (1302-78-9)  
LD50 (Intravenous): 35 mg/kg (rat)  
LDLo (Intravenous): 10 mg/kg (dog)

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**12. ECOLOGICAL INFORMATION**

**Environment**     Isothiazolinones are used as industrial microbiocides, indicating a high degree of toxicity to aquatic microorganisms.

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**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal**   For small amounts absorb with lime and dispose of to approved landfill site. For larger amounts, return to the manufacturer or contact the manufacturer for additional information.  
**Legislation**       Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

<b>Shipping Name</b>	None Allocated				
<b>UN No.</b>	None Allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>EPG</b>	None Allocated

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**15. REGULATORY INFORMATION**

**Poison Schedule**   A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).  
**AICS**                All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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**16. OTHER INFORMATION**

**Additional Information**   ISOTHIAZOLONES 1: Isothiazolone compounds are broad spectrum antimicrobial agents used in cosmetics in concentrations of 3 to 15 ppm. They are used industrially as slimicides in latex emulsions, cooling tower water, metal-working fluids, oil-field drilling muds, and in paper mills. Corrosive to eyes in concentrations of 1.5% or greater-corrosive effects may be delayed. Irritant at concentrations of 0.3% or greater. Non-irritating at 0.06% - irritant effects may be delayed.

ISOTHIAZOLONES 2: Maternal and fetal deaths but no teratogenicity were observed in rabbits and rats given 1.5 to 15 mg/kg. The concentration required to produce detectable mammalian cell mutations was 0.3 ppm. To reach these levels in testicular tissue in a 70 kg man, exposure to 21 mg would be required.

- ABBREVIATIONS:  
ADB - Air-Dry Basis.  
BEI - Biological Exposure Indice(s)  
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.  
CNS - Central Nervous System.  
EINECS - European INventory of Existing Commercial chemical Substances.  
IARC - International Agency for Research on Cancer.  
M - moles per litre, a unit of concentration.  
mg/m3 - Milligrams per cubic metre.  
NOS - Not Otherwise Specified.  
NTP - National Toxicology Program.  
OSHA - Occupational Safety and Health Administration.  
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).  
ppm - Parts Per Million.  
RTECS - Registry of Toxic Effects of Chemical Substances.  
TWA/ES - Time Weighted Average or Exposure Standard.

**HEALTH EFFECTS FROM EXPOSURE:**  
It should be noted that the effects from exposure to this product will depend on several factors including: 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 Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**  
The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only.

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Factors such as 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.

**Report Status**      This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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**End of Report**