

**Material Safety Data Sheet**  
**Material Name:** LPC 130 TANGERINE

**Last modified:** 24 June 2009

**Section 1 - Identification of Material and Supplier**

**Product Name**                   LPC 130 Tangerine  
**Other Names**                   Tangerine Liquid Painting Colour  
**Recommended uses**           Ceramic underglaze, for the decoration of ceramic wares

**Supplier's Name**               Clayworks Potters Supply Pty Ltd  
**Supplier's Address**           6 Johnston Court  
  Dandenong, Vic  
  Australia 3175

**Phone Number**               (03) 9791 6749  
**Emergency Contact Number** (03) 9791 6749   **Times available** 9am-5pm Mon-Fri  
**Contact Person**               Max Campbell

**Section 2 - Hazards Identification**

**Hazard Classification**

Classified as hazardous according to the criteria of the NOHSC.  
Not classified as dangerous goods according to the ADG Code.

**Risk Phrases**

R45 (2) – May cause cancer  
R48/23/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

**Safety Phrases**

S20/21 – When using do not eat, drink or smoke  
S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection  
S45 – In case of accident or if you feel unwell seek medical advice immediately  
S53 – Avoid exposure – obtain special instructions before use

**Section 3 - Composition/Information on Ingredients**

CAS number	Chemical Component	Percent
1306-23-6	Cadmium sulphide	2 – 6%
	Other ingredients determined not to be hazardous	Balance

**Section 4 - First Aid Measures**

**Necessary First Aid Measures:**

**inhalation**

This method of entering the body is unlikely. If it occurs, immediately move the victim to fresh air or remove the source of contamination. Ensure airways are clear and if breathing is restricted allow qualified person to administer oxygen through a face mask. If not breathing apply artificial respiration. Seek medical attention if irritation develops and persists.

**skin exposure**

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Wash affected area gently and thoroughly with water and non-abrasive soap. Wash or discard contaminated clothing before re-using. If irritation occurs seek medical attention immediately.

**eye exposure**

Immediately flush eyes with a large amount of water for at least 15 minutes, ensure eyelids are held open. Rubbing may cause abrasion of cornea. If pain or redness occurs seek medical advice.

**ingestion**

Do not induce vomiting, wash the victims mouth out thoroughly with water. Except by a deliberate act the ingestion of large amounts of this product is unlikely.

**advice to doctor**

Treat symptomatically

**other information**

For advice contact:

Poisons Information Centre

Australia.....131 126

New Zealand.....03 4747 000

**Section 5 - Fire Fighting Measures**

**Suitable Extinguishing Media**

Use extinguishing media suitable for the surrounding environment.

**Hazards from Combustion Products**

While in liquid form non-flammable, non-combustible. If involved in a fire and water is evaporated residue may be combustible. May release toxic gases.

**Precautions for Fire Fighters and special Protective Equipment**

Wear a NIOSH approved positive pressure, self contained breathing apparatus and fire fighter turnout gear

**Hazchem Code**

**Cadmium-**

6.1(b)

**Section 6 - Accidental Release Measures**

**Emergency Procedures**

Increase ventilation and remove all unnecessary staff. Wear a NIOSH approved positive pressure, self contained breathing apparatus and fire fighter turnout gear to minimise exposure.

Contact State Land Waste Management Authority (Victoria; (03) 615 6099)

**Methods & Materials for Containment & Clean Up Procedures:**

Contain spillage by damming and cover with non-combustible, non-reactive absorbent material. Do not let the spilled substance enter the environment

**Large spills**

If large quantities do enter the environment contact the State Land Waste Management Authority (Victoria; (03) 615 6099)

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**Section 7 - Handling & Storage**

**Precautions for Safe Handling**

Avoid contact with skin and eyes. To minimise the possibility of harm avoid repeated or prolonged exposure without protection. Strict maintenance of personal hygiene standards are essential; hands should be washed prior to eating, drinking, smoking or going to the toilet.

**Conditions for Safe Storage:**

Store in a cool, dry, well ventilated place. Keep lid tightly closed when not in use. Store away from excessive heat, strong oxidising agents, strong acids, food and feedstuffs. Keep container tightly closed to avoid contamination or leakage.

**Section 8 - Exposure Controls/Personal Protection**

**National Exposure Standards**

**Cadmium-**

*Worksafe Australia* Eight hour time weighted average (TWA) exposure limit: 0.01mg/m<sup>3</sup>. *Worksafe Australia* has determined that cadmium and its compounds is a 'probable carcinogen'.

A Maximum of 0.002 mg/L (i.e. 0.000002 g/L) can be ingested

**Biological Limit Values**

No limit is allocated

**Engineering controls**

The use of respiratory protection devices or ventilation systems is recommended if the product is to be heated created excessive fumes.

**Personal Protective Equipment:**

**Eyes/Face**

Eye protection should be worn appropriate to individual circumstance and engineering controls already in place.

**Skin**

Protective clothing and gloves should be worn if skin contact is likely while working with this material. Open shoes should not be worn.

**Respiratory**

Avoid inhaling vapours/mist. If ventilation is inadequate wear a mask which complies with government standards.

**General**

An eye wash fountain is recommended.

**Section 9 - Physical & Chemical Properties**

<b>Appearance</b>	Bright orange liquid
<b>Odour</b>	Odourless
<b>pH</b>	Not Available
<b>Boiling Point/Range</b>	100°C
<b>Solubility</b>	aqueous suspension

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**Specific Gravity** 1.2 – 1.7  
**Flammable limits**  
**LEL:** Not applicable  
**UEL:** Not applicable

<b>Section 10 - Stability &amp; Reactivity</b>
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**Chemical Stability**

Stable under normal ambient conditions of storage

**Conditions to Avoid**

Avoid contact with strong oxidisers, acids, excessive heat, sparks or open flame.

**Incompatible Materials**

Strong oxidising agents, acids and heat.

**Hazardous Decomposition Products**

Sulfur oxides, hydrogen sulfide and metal oxide fume.

**Hazardous Polymerisation**

Will not occur.

<b>Section 11 – Toxicological Information</b>
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**Acute & Chronic Health Effects**

**Component Analysis – LD50/LC50**

**Cadmium Sulfide (1306-23-6)**

Oral LD50 Rat: 7080 mg/kg

Oral LD50 Mouse: 1166 mg/kg

**Carcinogenicity**

This product may be carcinogenic to humans.

**Component Carcinogenicity**

**Cadmium Sulfide**

German DFG Category 2 (considered to be carcinogenic for humans);(Listed under cadmium and its compounds)

US OSHA has chosen to regulate occupational exposure to all cadmium compounds, including pigments, as a single category. The standard states that substances containing cadmium are a cancer hazard and can cause lung and kidney disease.

Cadmium and cadmium compounds are listed in the Annual NTP Report as carcinogenic to animals, but with only limited evidence of carcinogenicity to humans. This information is based on test results for cadmium compounds other than pigmentary forms.

Although certain cadmium compounds are known to cause kidney damage in humans and has been shown to cause lung cancer in laboratory animals, no chronic health effects have been shown to result from exposure to cadmium

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pigments. Cadmium pigments have been shown to be significantly less biologically available and less active than other cadmium compounds.

**Possible Routes of Exposure:**

**inhalation**

Highly unlikely route of exposure because cadmium sulfide is present in an aqueous suspension. According to documents released by the National Cancer Institute in the US results of a recent epidemiologic study suggest that occupational inhalation of cadmium is connected with an increased lung cancer risk. While cadmium oxide and cadmium chloride seem to be equally toxic, cadmium sulfide exhibits a lower acute pulmonary toxicity. May cause irritation to the mouth, nose or throat. due to exposure to mist, vapour or fumes.

**Ingestion**

May cause irritation to the mouth, oesophagus and stomach. Symptoms may include nausea, vomiting and abdominal pains.

**Skin**

May cause redness and itching

**Eye**

May cause irritation resulting in redness, stinging and lachrymation

**Chronic effects**

Repeated or prolonged exposure may cause skin irritation and dermatitis. Danger of serious damage to health by prolonged exposure from inhalation or ingestion. May cause cancer.

**Section 12 - Ecological Information**

**Ecotoxicity**

In the food chain important to humans, bioaccumulation of cadmium compounds takes place, specifically in crustacea and plants.

**Persistence/ Degradability**

It is strongly recommended not to let the material enter the environment because cadmium sulfide persists in the environment for a very long time.

**Mobility**

Not available for this material

**Section 13 – Disposal Considerations**

**Disposal Methods**

Consult regulations of state and local EPA to ensure proper disposal

**Section 14 – Transport Information**

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**UN Number**

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Cadmium Sulfide 2570  
Not available for whole product

**UN Proper Shipping Name** None Allocated  
**Class & Subsidiary Risk(s)** None Allocated  
**Packing Group** None Allocated

<b>Section 15 – Regulatory Information</b>
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**Component Classification and Labelling (EEC)**

The following components have labelling requirements under Council Directive 67/548/EEC, Annex I.

**Cadmium sulfide (1306-23-6)**

Annex#: 048-010-00-4 EINECS #: 215-147-8

**Classification:**

Toxic

Carcinogen Category 3

**Label Information:**

Harmful (Xn)

R20/22 - Harmful by inhalation and if swallowed.,

Toxic (T)

R40 - Possible risk of irreversible effects

R48/23/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R 53 – May cause long-term adverse effects in the aquatic environment.

S1/2 – Keep locked up and out of the reach of children

S36/37 – Wear suitable protective clothing and gloves

S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S61- Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

<b>Section 16 – Other Information</b>
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**Date of Preparation** 24 June 2004

**Key/Legend**

ACGIH – American Conference of Governmental Hygienists

NTP – National Toxicology Program

OSHA – Occupational Safety and Health Administration

TWA – Time Weighted Average (Concentration of a substance over an eight hour day, for five working days a week over an entire working lifetime)

TLV – Threshold Limit Value

**References**

<a href="http://www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a>	24/06/04
<a href="http://www.nohsc.gov.au/OHSinformation/Databases/HazardousSubstances">www.nohsc.gov.au/OHSinformation/Databases/HazardousSubstances</a>	24/06/04
<a href="http://www.cdc.gov/niosh">www.cdc.gov/niosh</a>	24/06/04
<a href="http://www.minerals.csiro.au/safety/hazchem.htm">www.minerals.csiro.au/safety/hazchem.htm</a>	24/06/04
<a href="http://www.npi.gov.au">www.npi.gov.au</a>	24/06/04

**END OF MSDS**