

**SAFETY DATA SHEET**

## Low-Sol Tin Opaque Glaze

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name	Low-Sol Tin Opaque Glaze
Product number	P2042
REACH registration notes	All glasses (Frits, Chemical) contained in this material are either (a) exempt from REACH registration as detailed in Annexe V or (b) covered by the registration details given against the specific component listed in this section.

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Identified uses Ceramic Glaze

**1.3. Details of the supplier of the safety data sheet**

Supplier Pottery crafts Ltd.,  
Campbell Road,  
Stoke-on-Trent,  
Staffordshire,  
UK. ST4 4ET.  
Tel 44 (0)1782 745000  
sales@pottery crafts.co.uk

**1.4. Emergency telephone number**

Emergency telephone +44(0) 1782 745000 Office Hours Mon-Friday 08:45 – 16:30 hours.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification**

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Aquatic Chronic 1 - H410
Classification (67/548/EEC or 1999/45/EC)	Repr. Cat. 1;R61. Xn;R20/22. Repr. Cat. 3;R62. N;R50/53. R33.

**2.2. Label elements****Pictogram**

Signal word	Warning
Hazard statements	H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with national regulations.

**2.3. Other hazards**

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

<b>Frits, Chemical (Group 5)</b>	<b>30-60%</b>
CAS number: 65997-18-4                      EC number: 266-047-6	
REACH Exempt Category 5 : Ceramic frits containing general elements that are not included in Annex I of Directive 67/548/EEC and with Pb and without Cd.	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b>

<b>ZINC OXIDE</b>	<b>5-10%</b>
CAS number: 1314-13-2                      EC number: 215-222-5	
M factor (Acute) = 1 M factor (Chronic) = 10	
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> N;R50/53

<b>Tin Oxide</b>	<b>1-5%</b>
CAS number: 18282-10-5	
<b>Classification</b> - Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b>

<b>Quartz (Silica)</b>	<b>&lt;1%</b>
CAS number : 14808-60-7	
<b>Classification</b> STOT RE 1 - H372	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R48/20

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

<b>General information</b>	Remove affected person from source of contamination.
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Contact physician if larger quantity has been consumed.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact** Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical Attention, if any discomfort continues.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### 4.3. Indication of any immediate medical attention and special treatment needed

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** None known.

**Hazardous combustion products** None at ambient temperatures

#### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid spreading dust or contaminated materials.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar.

#### 6.4. Reference to other sections

**Reference to other sections** Collect and dispose of spillage as indicated in Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container. Keep container dry.

#### 7.3. Specific end use(s)

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### Frits, Chemical (Group 5)

Long-term exposure limit (8-hour TWA ): WEL 0.1 mg/m<sup>3</sup>

##### Tin Oxide

Long-term exposure limit (8-hour TWA) : WEL 2 mg/m<sup>3</sup>

Short-term exposure limit (15-minute) : WEL 4 mg/m<sup>3</sup>

as Sn

##### Quartz (Silica)

Long-term exposure limit (8-hour TWA ): WEL 0.1 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits Total respirable dust 4 mg/m<sup>3</sup> - 8hr TWA**8.2. Exposure controls****Protective equipment****Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

**Hygiene measures**

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

**Respiratory protection**

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Combination filter, type A2/P2.

**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

Appearance	Dusty powder.
Colour	White.
Odour	Odourless.
Relative density	2 - 5 g/cm <sup>3</sup> @ °C
Solubility(ies)	Insoluble in water.

**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity****10.2. Chemical stability****Stability** Stable at normal ambient temperatures and when used as recommended.**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions** Not known. Not relevant.**10.4. Conditions to avoid****Conditions to avoid** Not known.**10.5. Incompatible materials****Materials to avoid** None known.**10.6. Hazardous decomposition products****Hazardous decomposition products** None at ambient temperatures.**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicological effects** No data recorded.**General information** No specific health hazards known.**SECTION 12: Ecological Information**

**Ecotoxicity** The product is not expected to be hazardous to the environment.

**12.1. Toxicity****12.2. Persistence and degradability**

**Persistence and degradability** The product contains only inorganic substances which are not biodegradable.

**12.3. Bioaccumulative potential****12.4. Mobility in soil****12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects****SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**General information** When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**SECTION 14: Transport information****14.1. UN number**

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

UN No. (ADN) 3077

**14.2. UN proper shipping name**

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains ZINC OXIDE)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**14.3. Transport hazard class(es)**

ADR/RID class 9

ADR/RID classification code M7

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

**Transport labels****14.4. Packing group**

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

**14.5. Environmental hazards**

**14.6. Special precautions for user**

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance Workplace</b>	Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131.

**15.2. Chemical safety assessment****SECTION 16: Other information**

<b>Issued by</b>	SDS Dept.
<b>Revision date</b>	27/09/2016
<b>Revision</b>	6
<b>Supersedes date</b>	04/03/2014
<b>Risk phrases in full</b>	Not classified. R20/22 Harmful by inhalation and if swallowed. R33 Danger of cumulative effects. R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61 May cause harm to the unborn child. R62 Possible risk of impaired fertility.
<b>Hazard statements in full</b>	H372 Causes damage to organs (Lungs) through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.