

SAFETY DATA SHEET

Transparent Leadless Brushing Glaze

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Transparent Leadless Brushing Glaze

Product number P2834

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 PotteryCrafts Ltd.,
Campbell Road,
Stoke-on-Trent,
Staffordshire.
UK. ST4 4ET
Tel 44 (0)1782745000
sales@pottery crafts.co.uk

1.4. Emergency telephone number

Emergency telephone +44(0) 1782 745000 Office Hours 10:00-15:30 Mon- Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

(REGULATION (EC) No 1272/2008)

Physical hazards	Not Classified
Health hazards	Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.
Environmental hazards	Not Classified

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)



Hazard pictograms:

Signal word: Warning

Hazard statements: H317 May cause an allergic skin reaction.

Precautionary statements: **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

tetramethylol acetylene diuriene

1,2-benzisothiazol-3(2H)-one

2-methyl-2H-isothiazol-3-one

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical nature: glass/frit
silicatic material
water

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
2,2'-oxydiethanol	111-46-6 203-872-2	Acute Tox. 4; H302 STOT RE 2; H373	>= 1 - < 10
tetramethylol acetylene diuriene	5395-50-6 226-408-0	Skin Sens. 1; H317	>= 1 - < 10
1,2- benzisothiazol3(2H)- one	2634-33-5 220-120-9	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 10

		Skin Sens. 1; H317 Aquatic Acute 1; H400	
2-methyl-2H- isothiazol3-one	2682-20-4 220-239-6	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,0015 - < 0,1$
Substances with a workplace exposure limit :			
kaolin	1332-58-7 310-194-1 Exempted from registration		< 10

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

General advice:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended
Inhalation	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician
Ingestion	Clean mouth with water and drink afterwards plenty of water. Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician
Eye contact	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

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

Symptoms: None known.

Risks: May cause an allergic skin reaction.

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

Treatment: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards Do not allow run-off from firefighting to enter drains or water courses.

5.3. Advice for firefighters

Special protective equipment: for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2. Environmental precautions

Environmental precautions Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against: Normal measures for preventive fire protection.
fire and explosion

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage: Keep container tightly closed in a dry and well-ventilated
areas and containers place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical Installations / working materials must comply with the technological safety standards.

Other data: No decomposition if stored and applied as directed

7.3. Specific end use(s)

Specific use(s): Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Expressed as	Basis
kaolin	1332-58-7	TWA (Respirable Dust)	2 mg/m ³		GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
2,2'-oxydiethanol	111-46-6	TWA	23 ppm 101 mg/m ³		GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				

8.2. Exposure controls

Engineering measures

No data available



Personal protective equipment

Eye/face protection

Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

Polyvinyl alcohol or nitrile- butyl-rubber gloves
The selected protective gloves have to satisfy the specifications of the Regulation (EU) 2016/425 and the standard EN 374 derived from it. Before removing gloves clean them with soap and water. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
Respiratory protection:	In the case of vapour formation use a respirator with an approved filter.
Protective measures:	Wear suitable protective equipment. When using do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	liquid
Colour:	off-white
Odour:	characteristic
Odour Threshold:	No data available
pH:	No data available
Melting point/range:	No data available
Boiling point/boiling range:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Burning rate:	No data available
Auto-ignition temperature:	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Relative density:	No data available
Bulk density:	No data available
Solubility(ies)	
Water solubility:	soluble
Solubility in other solvents:	No data available
Partition coefficient:	No data available
n-octanol/water	

Decomposition temperature: No data available

Viscosity

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidizing properties: Not applicable

9.2. Other information

Refractive index: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions: Stable under recommended storage conditions.
No decomposition if used as directed.
No hazards to be specially mentioned.

10.4. Conditions to avoid

Conditions to avoid: No data available

10.5. Incompatible materials

Materials to avoid: No data available

10.6. Hazardous decomposition products

Stable under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity: **Remarks:** No data available

Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Acute inhalation toxicity: Remarks: No data available

Acute dermal toxicity: Remarks: No data available

Components:

2,2'-oxydiethanol:

Acute oral toxicity: Acute toxicity estimate: 500 mg/kg
Method: Converted acute toxicity point estimate

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity: Acute toxicity estimate: 500 mg/kg
Method: Converted acute toxicity point estimate

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Product:

Remarks: No data available

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological Information

12.1. Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity: This product has no known ecotoxicological effects.

Chronic aquatic toxicity: This product has no known ecotoxicological effects.

Components:

2,2'-oxydiethanol:

Toxicity to fish: LC50 (Fish): 75.200 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia (water flea)): 84.000 mg/l
Exposure time: 48 h

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish: (Oncorhynchus mykiss (rainbow trout)): 0,8 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

LC50 (Daphnia magna (Water flea)): 4,4 mg/l
Exposure time: 48 h

2-methyl-2H-isothiazol-3-one:

M-Factor (Acute aquatic toxicity): 10

M-Factor (Chronic aquatic toxicity): 1

12.2. Persistence and degradability

Product:

Biodegradability: Remarks: No data available

Components:

2,2'-oxydiethanol:

Biodegradability: Remarks: No data available

tetramethylol acetylene diurine:

Biodegradability: Remarks: No data available

1,2-benzisothiazol-3(2H)-one:

Biodegradability: Remarks: No data available

2-methyl-2H-isothiazol-3-one:

Biodegradability: Remarks: No data available

kaolin:

Biodegradability: Remarks: No data available

12.3. Bioaccumulative potential

Product:

Bioaccumulation: Remarks: No data available

Components:

2,2'-oxydiethanol:

Bioaccumulation: Remarks: No data available

tetramethylol acetylene diurine:

Bioaccumulation: Remarks: No data available

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation: Remarks: No data available

2-methyl-2H-isothiazol-3-one:

Bioaccumulation: Remarks: No data available

kaolin:

Bioaccumulation: Remarks: No data available

12.4. Mobility in soil

Product:

**Distribution among
environmental compartments:** Remarks: No data available

Components:

2,2'-oxydiethanol:

**Distribution among
environmental compartments:** Remarks: No data available

tetramethylol acetylene diurine:

**Distribution among
environmental compartments:** Remarks: No data available

1,2-benzisothiazol-3(2H)-one:

**Distribution among
environmental compartments:** Remarks: No data available

2-methyl-2H-isothiazol-3-one:

**Distribution among
environmental compartments:** Remarks: No data available

kaolin:

**Distribution among
environmental compartments:** Remarks: No data available

12.5. Results of PBT and vPvB assessment

Product:

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Product:

Additional ecological information:

Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.
Send to a licensed waste management company.

Contaminated packaging:

Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not regulated as a dangerous good

14.2. UN proper shipping name

Not regulated as a dangerous good

14.3. Transport hazard class(es)

Not regulated as a dangerous good

14.4. Packing group

Not regulated as a dangerous good

14.5. Environmental hazards

Not regulated as a dangerous good

14.6. Special precautions for user

Remarks: Not classified as dangerous in the meaning of transport regulations.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Ship type: N/A
Pollution category: N/A

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC) : Neither banned nor restricted
Schedules of Toxic Chemicals and Precursors

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Neither banned nor restricted

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV): Neither banned nor restricted

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Neither banned nor restricted

Regulation 2019/1021 on persistent organic pollutants: Neither banned nor restricted

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

The components of this product are reported in the following inventories:

EINECS (European Union):	On the inventory, or in compliance with the inventory
SWISS (Switzerland):	On the inventory, or in compliance with the inventory
TSCA (United States):	On TSCA Inventory
DSL/NDSL (Canada):	All components of this product are on the Canadian DSL.
AICS (Australia):	On the inventory, or in compliance with the inventory
NZioC (New Zealand):	On the inventory, or in compliance with the inventory
ENCS (Japan):	On the inventory, or in compliance with the inventory
ISHL (Japan):	Not in compliance with the inventory
KECI (Korea):	On the inventory, or in compliance with the inventory
PICCS (Philippines):	On the inventory, or in compliance with the inventory
IECSC (China):	On the inventory, or in compliance with the inventory
TCSI (Taiwan):	Not in compliance with the inventory
CICR (Turkey):	Not in compliance with the inventory
INSQ (Mexico):	Not in compliance with the inventory

15.2. Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H301:	Toxic if swallowed.
H302:	Harmful if swallowed.
H311:	Toxic in contact with skin.
H314:	Causes severe skin burns and eye damage.
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H318:	Causes serious eye damage.
H330:	Fatal if inhaled.
H373:	May cause damage to organs through prolonged or repeated exposure.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.:	Acute toxicity
Aquatic Acute:	Acute aquatic toxicity
Aquatic Chronic:	Chronic aquatic toxicity
Eye Dam.:	Serious eye damage
Skin Corr.:	Skin corrosion
Skin Irrit.:	Skin irritation
Skin Sens.:	Skin sensitisation
STOT RE:	Specific target organ toxicity - repeated exposure

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