

CTM POTTERS SUPPLIES

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information:

Product Name	: Contem Underglazes-Powders PU1 to PU47 & Brush -on (Liquid Slop) UG1 to UG48 & UG Medium Various special grades including: 209UG, 216UG, 223UG, UG1.18
Company	: CTM Potters Supplies Unit 10A, Millpark Industrial Estate White Cross Road Woodbury Salterton Nr. Exeter EX5 1EL
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2. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains as follows:

Powders:

- Up to 75% insoluble spinel stains with heavy metal oxides fixedly absorbed by the spinal lattice and thus they lose their chemical, physical and physiological properties – non hazardous.
- PU8, 9, 10, 31, 32 contain 19-24% glass frit – non hazardous.
- All other PU contain 19-25% glaze frit containing inorganic metal-non metal compound adding approximately 0.2% zinc oxide –
CAS-No: 1314-13-2 EC-No: 215-222-5
- Up to 75% zirconium silicate – CAS-No: 10101-52-7 EC-No: 2332527
- Up to 28% ground silica bearing quart respirable crystalline – CAS-14808-60-7 EC-No: 2388784

Brush-on (Liquid Slop):

- Up to 32% insoluble spinel stains with heavy metal oxides fixedly absorbed by the spinal lattice and thus they lose their chemical, physical and physiological properties – non hazardous.
- Typically contain 49% water bearing various anti-bacterial agents and glaze binders made from wood pulp and other organic sources.
- UG8, 9, 10, 31, 32, 33, 34, 37, 209, 216, contain 7-9% glass frit – non hazardous.
- All other UG contain 5-20% glaze frit containing inorganic metal-non metal compound adding approximately 0.05% zinc oxide –
CAS-No: 1314-13-2 EC-No: 215-222-5
- Up to 18% ground silica bearing quartz respirable crystalline – CAS-No: 14808-60-7 EC-No: 2388784
- Up to 20% zirconium silicate – CAS-No: 10101-52-7 EC-No: 2332527

3. HAZARDS IDENTIFICATION

Under CHIP regulations ground silica is classified HARMFUL due to its crystalline silica (quartz) content.

The following risk phrase applies to the Powder PU range: Harmful by inhalation; danger of serious damage to health by prolonged exposure.

Under CHIP regulations zirconium silicate is classified as not harmful however for the PU powders safety phrase S24/25 “avoid contact with skin and eyes” is recommended.

Zinc oxide is harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment however this product contains only between 0.2% and 0.05% zinc oxide and for normal use is not considered harmful due to its zinc oxide content.

As for Brush-on UG's are in a liquid form the respirable hazardous nature of the quartz is not relevant as a hazard for this product.

4. FIRST AID MEASURES

Oral ingestion:

Do not induce vomiting. If patient is conscious, give plenty of water to drink.

Inhalation:

Seek immediately a source of fresh air. If respiratory tracts are irritated, seek medical advice.

Skin contact:

Remove contaminated clothing. Wash the affected area with soap and water. As with any abrasive powder it may give rise to minor irritation. If irritation persists, seek medical attention.

Eye contact:

Flood with clean water for 15 minutes and seek medical advice if irritation persists.

5. FIRE-FIGHTING MEASURES

Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc.

Care should be taken to observe the local surrounding area.

6. ACCIDENTAL RELEASE MEASURES

Large spillages of slop material should be absorbed with an inert material e.g. sand.

Remove any dry material either by vacuum cleaner fitted with an efficient filter, or by wet sweeping to avoid creating dust.

Any collected waste must be stored in a suitable container prior to disposal.

Wear protective respiratory protection when vacuuming or sweeping.

7. HANDLING & STORAGE

Prevent contact with eyes, skin and clothing.

Wash hands/skin after use.

Do not eat, drink or smoke when using this material and keep away from animal feeding stuffs.

Local exhaust ventilation is recommended when mixing or pouring powders to comply with occupational exposure limits to dust especially those for respirable crystalline quartz.

Store in secure containers in dry conditions, avoiding extremes of temperatures.

Due to zinc oxide content the product is slightly water-pollutive and care must be taken to observe national and local regulations concerning handling and storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

In conditions of spray mist or product dust, local exhaust ventilation should be provided to comply with occupational exposure limits (see Guidance Note EH40 – latest edition) also –

Hand/Skin Protection: Gloves (plastic or rubber, cotton lined).

Eye Protection: Goggles (BS2092, Grade 1: CDM).

Respiratory Protection: HSE approved respiratory equipment must be provided especially if local exhaust ventilation is not adequate.

When using Brush-on UG liquid as a brush-on care must be taken but the above does not apply.

Workplace Exposure Limit for quartz, respirable crystalline based on Long Term Exposure Limits of 8 hour TWA reference period is 0.1 mg/m³.

Workplace Exposure Limit for zinc oxide based on Long Term Exposure Limits of 8 hour TWA reference period is 1 mg/m³.

9. PHYSICAL & CHEMICAL PROPERTIES

Form: Aqueous suspension or fine dry powder
Odour: Odourless

Melting or Flash Point, Explosive Properties:

Not applicable-stable and relatively inert.

10. STABILITY & REACTIVITY

Stable and relatively inert over normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicology:	LD50	Oral	>2000mg/kg
	LD50	Dermal	not known
	LD50	Inhalation	not known

Health Effects: Inhalation of finely divided quartz over a prolonged period of time can result in damage to lung tissue and impaired pulmonary function.

All abrasive powder can cause localised skin irritation especially in folds of skin or under tight clothing.

12. ECOLOGICAL INFORMATION

Persistence: The product is chemically stable and will persist in the environment.

Ecotoxicity: Not known.

Zinc oxide is harmful to aquatic organisms however in this product there is approximately 0.2% in the PU powder and 0.05% in the UG liquid.

Toxicity/Daphnia:	EC50	Daphnia	2.2 mg/l /48 h
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13. DISPOSAL CONSIDERATIONS

Dispose in accordance with current waste disposal regulations (for UK – Control of Pollution (Special Waste) Regulations 1980). Landfill is the most appropriate method.

14. TRANSPORT INFORMATION

None hazardous for transportation – no special precautions required other than secure packaging.

15. REGULATORY INFORMATION

PU Powder:

EC Supply Labelling Harmful

R-Phrases:	R20	harmful by inhalation.
	R48	danger of serious damage to health by prolonged exposure.

S-Phrases:	S22	do not breathe dust.
	S24/25	avoid contact with skin and eyes.

UG Brush-on liquid slop is judged none hazardous.

16. OTHER INFORMATION

Good industrial hygiene practices are recommended when handling any powder or liquid.

Data sheet producing department: CTM Potters Supplies
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Disclaimer:

The information contained in this safety data sheet has been prepared using the best available information, however in view of technical developments, this may alter. 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. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.