



SAFETY DATA SHEET

UNDERGLAZE COLOURS – LEAD FREE AND CADMIUM FREE

1. Product Information

Underglaze Colours:	UG001, UG003, UG005, UG009, UG013, UG017, UG021, UG025, UG037, UG041, UG053, UG057, UG077, UG081, UG085, UG087, UG089, UG093, UG097, UG101, UG105, UG109, UG113, UG117, UG121, UG125, UG129, UG133, UG137, UG141, UG145, UG149, UG153, UG157, UG161, UG165, UG169, UG173, UG177, UG181, UG183, UG185, UG193, UG197, UG199, UG204, UG209, UG213, UG216.
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2. Hazardous Ingredients

Entity	%	CAS No.	ACGIH TLV	OSHA PEL
Zirconium Silicate	0-9	10101-52-7	5mg/m ³ (as Zr)	5mg/m ³ (as Zr)
Clay/Potash	< 15	1302-78-9	3mg/m ³	5mg/m ³
Calcined Alumina	0-2	1344-28-1	1mg/m ³	5mg/m ³
Silica	0-6	14808-60-7	0.1mg/m ³	0.1mg/m ³
Zinc Oxide	0-10	1314-13-2	2mg/m ³	5mg/m ³
Lithium Carbonate	0-10	554-13-2	3mg/m ³	5mg/m ³
Magnesium Carbonate	0-6	7760-50-1	5mg/m ³	5mg/m ³

3. Physical and Chemical Properties

Appearance	Colour dependant on pigments present
Odour	Negligible
Boiling Point	N/A
Melting Point	> 400 °C
Vapour Pressure	N/A
Specific Gravity	1.2-1.45 @ 25 °C
Flash Point	N/A
Flammability Limits	No data
Solubility in Water	Negligible
Viscosity	No data
pH	7.0-8.5



Volatile Organic Comp. 7-14%

4. Hazards Identification

Silica	Crystalline Silica may be present. Crystalline Silica may cause irritation to eyes, skin and the respiratory tract. Prolonged or repeated inhalation of silica, in excess of TLV, may lead to delayed lung injury (silicosis). This material is listed as a possible carcinogen.
Routes of entry	Ingestion. Absorption through skin negligible. Inhalation only if sprayed.

5. First Aid Measures

Swallowed	Dilute by drinking water
Eye	Flush eyes with copious quantities of water for at least 15 minutes. If irritation persists, contact a physician.
Skin	Wash skin with soap and water
Inhaled	Remove from exposure. Apply artificial respiration if breathing has stopped and contact physician.

6. Fire/Explosion Hazard

Flash Point:	N/A
Flammable Limits:	N/A
Extinguishing Media:	Not combustible
Special Fire Fighting Procedure:	None
Unusual Fire and Explosion Hazards:	None

7. Accidental Release Measures

Spillage:	Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum or wash into receptacle for disposal.
Waste Disposal:	Follow Federal or State and Local regulations for disposal. Testing of the waste may be required to determine status under hazardous waste regulations.

8. Handling and Storage

Engineering Control:	None
Work Practices:	Store away from food. Do not smoke, eat or drink while handling.
Procedure/ Equipment:	None



9. Exposure Controls /Personal Protection

Use of the following protective measures are strongly recommended if the glazes are to be applied by spraying.

The work hygiene practices apply regardless of the method of application.

Respiratory Protection:	Use NIOSH approved dust and/or fume respirator as necessary.
Ventilation:	Local exhaust for spraying.
Protective gloves:	N/A
Eye Protection:	For spraying.
Other Protection:	Wear appropriate, clean, protective clothing such as, but not limited to overalls, smocks and aprons.
Work Practices:	Food, beverages and smoking materials should not be in the work area. Hygiene is very important. Wash thoroughly before eating, drinking and smoking or applying cosmetics.

10. Stability & Reactivity Data

Incompatibility:	N/A
Stability:	Stable.
Hazardous decomposition:	N/A
Hazardous polymerisation:	N/A
Conditions to avoid:	Fumes from firing, inhalation of spray.

11. Toxicological Information

Hazard to Humans:	None during normal use. Harmful if inhaled or swallowed.
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Do not spray apply

If glaze is spray applied the following warnings apply: Warning: Contains Quartz

1. Possible cancer agent based on tests with laboratory animals.
2. Exposure may cause lung damage.
3. Keep out of reach of children; avoid inhalation.

This product contains chemicals known to cause cancer.

Health Hazards (acute and chronic):	Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs.
Additional Information:	Frits are fused silica glass like substances. The bioavailability may be limited because of the physical nature of the frit. The cadmium pigments used are encapsulated in a zirconium matrix to



render the cadmium insoluble. According to current toxicology regulation, these products may be classified as NON-TOXIC.

12. Ecological Information

Mobility:	N/A
Persistence/Degradability:	N/A
Bioaccumulation:	N/A
Ecotoxicity:	N/A

13. Disposal Considerations

Waste Disposal Method:	Follow Federal, State or Local regulations for disposal. Testing of waste may be required to determine status under hazardous waste regulations.
Waste residue/unused product:	Can be land filled according to local regulations.
Contaminated packaging:	Can be land filled according to local regulations.

14. Transport Information

Not regulated. Not dangerous cargo, not restricted by air.
UN Number: N/A

15. Regulatory Information

EEC Marketing and labelling hazard symbol:	-	
S Phrases	S20/21	When using do not eat, drink or smoke.
	S22	Do not breath dust or spray.
	S24/25	Avoid contact with skin or eyes.
	S36/37	Wear suitable protective clothing and gloves.
	S45	In case of accident or if you feel unwell, seek medical advice immediately.
WHMIS Status:	Not controlled	



16. Other Information

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