

MATERIAL SAFETY DATA SHEET – 1

Lead Free and Cadmium Free Glazes

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ISSUED DATE: MARCH 2015

DISTRIBUTOR: _____

CONTACT NUMBER: _____

SECTION 1 - PRODUCT INFORMATION

UNDERGLAZES	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
ONE STROKES	OS001, OS013, OS017, OS021, OS025, OS073, OS077, OS085, OS089, OS093, OS097, OS101, OS105, OS109, OS113, OS117, OS121, OS125, OS129, OS133, OS137, OS141, OS145, OS149, OS153, OS157, OS161, OS165, OS169, OS173, OS177, OS181, OS185, OS189, OS193, OS197, OS201, OS204, OS209, OS213, OS216
SUPERIOR GLAZES	SG001, SG001D, SG005, SG009, SG021, SG049, SG053, SG057, SG061, SG065, SG085, SG089, SG093, SG097, SG101, SG105, SG109, SG113, SG117, SG121, SG125, SG129, SG133, SG137, SG141, SG145, SG149, SG153, SG155, SG157, SG161, SG165, SG169, SG173, SG177, SG181, SG185, SG189, SG193, SG197, SG201, SG203, SG204, SG209, SG213, SG213D
CAFÉ COLORS	CC001, CC005, CC013, CC019, CC025, CC033, CC037, CC041, CC043, CC045, CC047, CC049, CC053, CC073, CC085, CC089, CC093, CC097, CC113, CC115, CC117, CC121, CC125, CC129, CC133, CC137, CC141, CC143, CC144, CC145, CC149, CC153, CC157, CC161, CC165, CC169, CC173, CC177, CC181, CC185, CC189, CC193, CC197
CAFÉ COLORS G	CC001G, CC005G, CC013G, CC019G, CC025G, CC033G, CC037G, CC041G, CC043G, CC045G, CC047G, CC049G, CC053G, CC073G, CC085G, CC089G, CC093G, CC097G, CC113G, CC115G, CC117G, CC121G, CC125G, CC129G, CC133G, CC137G, CC141G, CC143G, CC144G, CC145G, CC149G, CC153G, CC157G, CC161G, CC165G, CC169G, CC173G, CC177G, CC181G, CC185G, CC189G, CC193G, CC197G
SPECKLED CAFÉ COLORS	SC001, SC033, SC125, SC141, SC144, SC153, SC157, SC161, SC165, SC197
CRYSTALLITES	CR001, CR005, CR009, CR021, CR025, CR029, CR033, CR037, CR041, CR045, CR049, CR053, CR057, CR061, CR065, CR069
3D TRAILING GLAZES	3D001, 3D005, 3D017, 3D021, 3D025
CRACKLE GLAZES	CG001, CG003, CG005, CG007, CG013
LOW SHEEN GLAZES	LS001, LS005, LS009, LS013, LS017, LS021, LS025, LS029, LS033, LS037, LS041, LS045, LS049, LS053, LS057, LS061, LS069, LS073, LS073D
FANTASY GLAZES	FG003, FG057, FG177, FG207, FG209
HIGH FIRE GLAZES	HF001, HF005, HF009, HF013, HF025, HF029, HF045, HF049, HF057, HF061, HF065, HF069, HF073, HF077, HF081, HF085, HF089, HF093, HF097, HF101, HF105, HF109, HF113, HF117, HF121, HF125, HF129, HF133, HF137, HF141, HF145, HF149, HF153, HF157, HF157D

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HIGH FIRE	HE101, HE117, HE129, HE201, HE205, HE209, HE301
EXOTICS	
KILN WASH	SP021
FANTASY	SP025
ENHANCER	

SECTION 2 – HAZARDOUS INGREDIENTS

ENTITY	%	CAS NO	ACGIH TLV	OSHA PEL
ZIRCONIUM SILICATE	0 – 9%	10101-52-7	5 mg / m ³ (as Zr)	5 mg / m ³ (as Zr)
CLAY/POTASH	< 15%	1302-78-9	N/A	N/A
CALCINED ALUMINA	0 - 2%	1344-28-1	10 mg / m ³	5 mg / m ³
SILICA	0 - 6%	14808-60-7	0.1 mg / m ³	0.1 mg / m ³
ZINC OXIDE	0 - 10%	1314-13-2	2 mg / m ³	5 mg / m ³
LITHIUM CARBONATE	0 – 10%	554-13-2	N/A	N/A
MAGNESIUM CARBONATE	0 – 6%	7760-50-1	N/A	N/A

SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Color dependent 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%

SECTION 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.

SECTION 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.

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INHALED: Remove from exposure. Apply artificial respiration if breathing has stopped and contact physician.

SECTION 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

SECTION 7 – ACCIDENTAL RELEASE MEASURES

Spillage: Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum or wash into a 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.

SECTION 8 – HANDLING AND STORAGE

ENGINEERING CONTROL: None
WORK PRACTICES: Store away from food. Do not smoke, eat or drink while handling.
PROCEDURE/EQUIPMENT: None.

SECTION 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.

SECTION 10 – STABILITY AND REACTIVITY DATA

INCOMPATIBILITY: N/A
STABILITY: Stable.
HAZARDOUS DECOMPOSITION: N/A
HAZARDOUS POLYMERISATION: N/A

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CONDITIONS TO AVOID: Fumes from firing, inhalation of spray.

SECTION 11 – TOXICOLOGY INFORMATION

USA

Hazard to Humans: None during normal use. Harmful if inhaled or swallowed.

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 the State of California 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.

SECTION 12 – ECOLOGICAL INFORMATION

MOBILITY: N/A
PERSISTENCE/DEGRADABILITY: N/A
BIOACCUMULATION: N/A
ECOTOXICITY: N/A

SECTION 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.

SECTION 14 – TRANSPORTATION

Not regulated. Not dangerous cargo, not restricted by air.

UN NUMBER: N/A

SECTION 15 – REGULATORY INFORMATION

Silica is listed by California, Proposition 65
Silica is listed on the IARC, OSHA or NTP carcinogen list.
All ingredients are on U.S. TSCA/EC/AICS/DSL Inventory.

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See local requirements.

EU Status: -

Symbol: -

EEC

S-20/21 When using do not eat, drink or smoke

S-22 Do not breathe dust or spray

S-24/25 Avoid contact with skin and eyes

S-36/37 Wear suitable protective clothing and gloves

S-45 In case of accident or if you feel unwell, seek medical advice immediately

WHMIS Status: Not controlled

SECTION 16 – ADDITIONAL INFORMATION:

This information is provided without warranty, representation, inducement or license of any kind, except that it is accurate to the best of knowledge of Chrysanthos Color Company Limited or obtained from sources believed to be accurate.

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END OF MATERIAL SAFETY DATA SHEET