



SAFETY DATA SHEET

PRODUCT NAME: UNDERGLAZE CHALK

1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

SUPPLIER: _____

ADDRESS: _____

TELEPHONE: _____

FACSIMILIE: _____

EMERGENCY: _____

WEB SITE: _____

E-MAIL: _____

SYNONOMYS: CHRYSANTHOS UNDERGLAZE CHALK
UC001, UC003, UC004, UC005, UC007, UC009, UC011, UC015, UC017, UC021, UC025, UC029

USES: CERAMIC UNDERGLAZES

ISSUED DATE: Thursday, 29 June 2023

2 – HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO EC REGULATION 1272/2008 (CLP)

Each underglaze chalk is a mixture of ceramic material containing non-lead frits, clay and other minerals and color pigments. Contains potential carcinogens: Crystalline silica (quartz) as an inhalation hazard, may be present if unfired, dried glaze is excessively handled and allowed to create airborne dust.

Due to the nature of the underglaze chalks and provided they are used as directed they are not anticipated to be a health hazard.

GHS LABEL ELEMENTS:

HAZARD STATEMENTS: non- allocated.

PRECAUTIONARY STATEMENTS: non- allocated.

SIGNAL WORD: non- allocated.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

ENTITY*	CAS NO	CLASSIFICATION	%#
SILICA	14808-60-7	STOT RE 2 H373; STOT RE 1 H372; Carc. 1A H350	< 5 %
KAOLIN	1332-58-7	Skin Irrit. 2 H315; Eye Irrit. 2 H319; STOT RE2 H373	< 50 %
CALCINED ALUMINA	1344-28-1	STOT SE3 H335, STOT SE3 H370, STOT RE2 H373	<15 %



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* The remaining ingredients are not listed as they are either not classified as hazardous or fall below GHS cutoff levels.
The concentrations shown are maximum across all products.

4 – FIRST AID MEASURES

EYE: May cause irritation. Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a doctor.

INHALED: May cause irritation. Remove from exposure.

SKIN: May cause irritation. Wash skin with soap and water.

SWALLOWED: Contact a doctor. Do not induce vomiting.

ADVICE TO DOCTOR: Treat symptomatically.

5 – FIRE FIGHTING MEASURES

FLAMMABILITY: Non Flammable.

FIRE & EXPLOSION: No fire or explosion hazard exists.

EXTINGUISHING: Use an extinguishing agent suitable for the surrounding fire.

HAZCHEM CODE: None allocated.

6 – ACCIDENTAL RELEASE MEASURES

SPILLAGE: N/A

7 – STORAGE AND HANDLING

STORAGE: Store in a cool, dry, well-ventilated area, removed from oxidizing agents, acids and foodstuffs.

HANDLING: Before using carefully read the product label. Use of safe practices is recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS:

INGREDIENT	TWA		STEL		ACGIH TLV	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
SILICA	-	0.1	-	-	-	0.1
KAOLIN	-	10	-	-	-	3
CALCINED ALUMINA	-	10	-	-	-	-



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The underglaze chalks are non-hazardous solid mixtures of ceramic materials containing non-lead frits, clay, and other minerals and color pigments. These mixtures have no TWA or TLV.

BIOLOGICAL LIMITS: No biological limits allocated.

ENGINEERING CONTROLS: Not required.

PPE

Eye / Face	Not normally needed.
Hands	Not normally needed.
Body	Not normally needed.
Respiratory	Not normally needed.

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Solid Colored Chalk
ODOUR:	N/A
BOILING POINT:	N/A
MELTING POINT:	> 400°C
VAPOUR PRESSURE:	N/A
SPECIFIC GRAVITY:	N/A
FLASH POINT:	N/A
FLAMMABILITY LIMITS:	Non Flammable
SOLUBILITY IN WATER:	Negligible
VISCOSITY:	N/A
pH:	N/A
% VOLATILES	7 – 14%
EVAPORATION RATE	N/A
UPPER EXPLOSION LIMIT	N/A
LOWER EXPLOSION LIMIT	N/A

10 – STABILITY AND REACTIVITY

REACTIVITY:	None known.
CHEMICAL STABILITY:	Stable.
CONDITIONS TO AVOID:	Fumes from firing in kiln. Avoid contact with incompatible substances.
INCOMPATIBLE MATERIAL:	None known.
HAZARDOUS DECOMPOSITION:	None known.
HAZARDOUS REACTIONS:	None known.

11 – TOXICOLOGICAL INFORMATION

HEALTH HAZARD SUMMARY: Under normal conditions of use, adverse health effects are not anticipated. Due to the form of the products, an inhalation hazard is not anticipated.

These underglaze chalks contain silica, a known carcinogen. Inhalation is the route of entry into the body that can lead to the development of Silicosis. These solid premixed products should be non-toxic during recommended



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use. Some of the pigments may contain small amounts of various forms of metals (Sn, Mn, Ti, Zr, Co, Cr, Ni, Cd, Pr), some of which are considered carcinogenic. The metals in pigments may be in form of frits, spinel or formed from high temperature calcination that may have a different bioavailability than the metal itself. Silica and pigments in the underglaze chalks should be non-toxic during recommended use.

EYE: Low irritants. Contact may result in irritation, lacrimation and redness.

INHALATION: Exposure considered unlikely. Due to the form of the products and nature of use, an inhalation hazard is not anticipated with normal use.

SKIN: Low irritants. Prolonged or repeated contact may result in mild irritation.

INGESTION: Low toxicity. Ingestion is considered unlikely due to the form of the products. However ingestion via hand-mouth transfer may result in gastrointestinal irritation, nausea and vomiting. Maintain good personal hygiene standards.

TOXICITY DATA:

QUARTZ (SILICA CRYSTALLINE) (14808-60-7)
LCLo (inhalation) 300 µg/m³/10 years (human)
TCLo (inhalation) 16,000,000 particles/ft³/8 hrs/17.9 years (human fibrosis)

12 – ECOLOGICAL INFORMATION

ENVIRONMENT: Limited eco-toxicity data was available for these products at the time of this report. Ensure appropriate measures are taken to prevent these products from entering the environment.

13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: For small amounts dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved.

LEGISLATION: Dispose in accordance with relevant local legislation.

14 – TRANSPORTATION

NOT CLASSIFIED AS DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE.

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG/IMO)	AIR TRANSPORT (IATA/ICAO)
UN NUMBER	None Allocated	None Allocated	None Allocated
PROPER SHIPPING NAME	Non-Dangerous Goods	Non-Dangerous Goods	Non-Dangerous Goods
DG CLASS / DIVISION	None Allocated	None Allocated	None Allocated
SUBSIDIARY RISKS	None Allocated	None Allocated	None Allocated
PACKING GROUP	None Allocated	None Allocated	None Allocated
HAZCHEM CODE	None Allocated	None Allocated	None Allocated

15 – REGULATORY INFORMATION



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INVENTORY LISTINGS:

AUSTRALIA:

All components are listed on AICS or are exempt.

USA:

Silica is listed on IARC, OSHA and NTP carcinogen list.

All ingredients are on TSCA inventory.

California Proposition 65 - Proposition 65: Silica (Quartz), Cobalt, Chromium and Cadmium are listed on the carcinogen list.

CANADA:

All ingredients are on DSL inventory.

WHMIS – Not controlled.

EUROPE:

All ingredients are on EC inventory.

CHEMICAL SAFETY ASSESSMENT: USA:

Conforms to ASTM D 4236 This material has been evaluated under the provisions of LHAMA (Labeling of Hazardous Art Material Act). This product is judged to be non-toxic and non-flammable under proposed use conditions. No special warning is required under the provisions of LHAMA or California Proposition 65 during use.

EU:

Does not require a hazardous warning label according to the EU guidelines/Dangerous Chemicals Ordinance.

16 – OTHER INFORMATION

ADDITIONAL INFORMATION:

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

ABBREVIATIONS:

AICS	Australian Inventory of Chemical Substances
ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstracts Service Number
CNS	Central Nervous System
EC No.	EC No – European Community Number
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m ³	Milligrams per cubic meter



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PEL	Permissible Exposure Limit
pH	Acidity < 7 – Alkalinity > 7 measure
ppm	Parts Per Million
REACH	Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TLV	Threshold Limit Value
TWA/OEL	Time Weighted Average of Occupational Exposure Limit
STEL	Short Term Exposure Limit
TSCA	Toxic Substances Control Act

REVISION HISTORY:

Revision	Description
1.0	Creation
1.0	Hazards updated.

REPORT STATUS:

The report has been by Chrysanthos Color Company Limited – China. The information provided on safety and handling represents the current knowledge at the time of writing. We should be contacted directly for further clarification regarding any aspect of the product if required.

The SDS has been prepared with all due care to include accurate and up-to-date information. We do not however provide any warranty as to accuracy or completeness. As far as lawfully possibly, Chrysanthos Color Company Limited – China accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained herein.

PREPARED BY:

Tony Crisafi
Chrysanthos Color Company Limited
2nd Floor, Building B1,
No 19 Gaoxinxishi Road,
Nanning High Tech Zone, Nanning,
Guangxi 530003, China.
Tel/Fax: +86 (771) 231 0885
Mob: +61 402 830 337
Email: info@chrysanthos.com
Web: www.chrysanthos.com

End of SDS