

SAFETY DATA SHEET

PRODUCT NAME: HIGH FIRE GLAZES
– IDENTIFICATION OF MATERIAL AND SUPPLIER
SUPPLIER:
ADDRESS:
TELEPHONE:
FACSIMILIE:
EMERGENCY:
WEB SITE:
E-MAIL:
SYNONOMYS: CHRYSANTHOS HIGH FIRE GLAZES
USES: CERAMIC GLAZES
ADDRESS: TELEPHONE: FACSIMILIE: EMERGENCY: WEB SITE: E-MAIL: SYNONOMYS: CHRYSANTHOS HIGH FIRE GLAZES USES: CERAMIC GLAZES ISSUED DATE: Thursday, 3 May 2018
- HAZARDS IDENTIFICATION
NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC
Each High Fire Glaze is a mixture of ceramic material containing, water, non-leaded frits, clay, and other minerals and color pigments. Contains potential carcinogens: Crystalline silica (quartz), as an inhalation hazard, may be present if:
a) Unfired, dried glaze is excessively handled and allowed to create dust.
b) Mist is present after spray application.
A few pigments may contain small amounts of zirconium encapsulated cadmium and other metals. Other ingredients present have no known acute toxicity.
GHS LABEL ELEMENTS:

HAZARD STATEMENTS: None allocated

PRECAUTIONARY None allocated

STATEMENTS:

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

UN NUMBER: None allocated **DG CODE:** None allocated **PACKING GROUP:** None allocated SUBSIDURARY RISK: None allocated

HAZCHEM CODE: None allocated

3 - COMPOSITION / INFORMATION ON INGREDIENTS

ENTITY CAS NO **CLASSIFICATION** %



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BINDER	N/A	N/A	< 1%
CADMIUM COMPOUNDS	N/A	Acute Tox. 4 H302 H312 H332,	0 - 3%
		Aquatic Acute 1 H400 H410	
CALCIUM CARBONATE	471-34-1	N/A	0 - 8%
CERAMIC PIGMENTS	N/A	N/A	0 - 7%
DISPERSANT	N/A	N/A	< 0.3%
FRITS, CHEMICALS	65997-18-4	N/A	< 30%
KAOLIN	1332-58-7	N/A	< 10%
ORGANIC PIGMENTS	N/A	N/A	< 0.01%
POTASH FELDSPAR	68476-25-5	N/A	< 4%
PRESERVATIVE	N/A	N/A	< 0.5%
SILICA	14808-60-7	N/A	< 2%
WATER	7732-18-5	N/A	< 58%
ZINC OXIDE	1314-13-2	N/A	< 5%
ZIRCONIUM SILICATE	10101-52-7	N/A	< 10%

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 F<mark>IGHTING MEASURES</mark>

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: Use personal protection equipment. Contain spillage. Uncontaminated

material may be recovered and re-used. Contaminated material to be covered / absorbed with non-combustible absorbent material (vermiculite, sand, or

similar), collect and place in suitable containers for disposal.

7 – STORAGE AND HANDLING

STORAGE: Store in a cool, dry, well ventilated area, removed from oxidizing agents,

acids and foodstuffs. Ensure that containers are adequately labeled,

protected from physical damage, and sealed when not in use.



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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:

					AC	GIH
INGREDIENT	T	WA	ST	EL	TI	\mathbf{V}
	ppm	mg/m ³	ppm	mg/m^3	ppm	mg/m^3
CADMIUM COMPOUNDS (as Cd)		0.01				
ZIRCONIUM SILICATE (as Zr)	-	5		10	-	5
KAOLIN	-	10	-	\ <u>-</u>	-	3
CALCINED ALUMINA	- 4			-	_	1
SILICA	-	0.1	- 7	-	-	0.1
ZINC OXIDE	,	10	6	-	-	2
CALCIUM CARBONATE	-	10	-	_	-	-

Remaining main glaze ingredients do not have formal Exposure Limits. Some pigments contain metals that have exposure limits (eg Co, Cu, Cr, Mn) but are used in low levels. These glazes are non-hazardous liquid mixtures of ceramic materials containing, water, non-leaded frits, clay, and other minerals and color pigments. These mixtures have no TWA or TLV.

BIOLOGICAL LIMITS: No biological limits allocated.

ENGINEERING CONTROLS: Avoid inhalation when spraying. Use in well ventilated area. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

Maintain vapor levels below the recommended exposure standard.

PPE

Eye / FaceWear appropriate eye protection / safety glasses to keep mist out of eyes if

spray application is used.

Hands Not normally needed.

Body Wear appropriate clean, protective clothing such as, but not limited to,

overalls, smocks, and aprons.

Respiratory Use a NIOSH approved respirator if spray application is used.

9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Viscous Colored liquid

ODOUR: Negligible
BOILING POINT: N/A
MELTING POINT: > 400°C

VAPOUR PRESSURE:

SPECIFIC GRAVITY:

FLASH POINT:

NOT AVAILABLE

1.4 – 1.6 @ 25°C

NOT RELEVANT

NON FLAMMABLE

SOLUBILITY IN WATER:NegligibleVISCOSITY:No datapH:7.0-8.5% VOLATILES7-14%

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EVAPORATION RATENOT AVAILABLEUPPER EXPLOSION LIMITNOT RELEVANTLOWER EXPLOSION LIMITNOT RELEVANT

10 - STABILITY AND REACTIVITY

REACTIVITY: None known.

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Fumes from firing in kiln; Mist created from spray application. 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 and low volatility, an inhalation hazard is not anticipated unless products are heated or sprayed.

These mixtures contain silica, a known carcinogen. Inhalation is the route of entry into the body that can lead to the development of Silicosis. These water-based, premixed products should be non-toxic during recommended use. Some of the pigments may contain small amounts of various forms of metals (Sn, Mn, Ti, Zr, V, Fe, 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 glaze 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) $300 \,\mu \text{g/m}^3/10 \text{ years (human)}$

TCLo (inhalation) 16,000,000 particles/ft³/8 hrs/17.9 years

(human fibrosis)

CADMIUM COMPOUNDS



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LC50 (inhalation)

LCLo (inhalation)

LD50 (ingestion)

LD50 (intraperitonial)

LD50 (intravenous)

LD50 (intravenous)

LDLo (ingestion)

LDLo (subcutaneous)

25 mg/m³/30M (rat)

39 mg/kg (mouse)

5700 µg/kg (mouse)

5 mg/kg (rabbit)

70 mg/kg (rabbit)

6 mg/kg (rabbit)

TCLo (inhalation) 88 µg/m3/8.6 years (man)

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 absorb with sand, vermiculite or similar and dispose of to

an approved landfill site. Contact the manufacturer for additional

information if larger amounts are involved.

LEGISLATION: Dispose of in accordance with relevant local legislation.

14 - TRANSPORTATION

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

	LAND TRANSPORT	SEA TRANSPORT	AIR TRANSPORT
	(ADG)	(IMDG/IMO)	(IATA/ICAO)
UN NUMBER	None Allocated	None Allocated	None Allocated
PROPER SHIPPING	Water based artist and	Water based artist and	Water based artist and
NAME	hobby ceramic glazes	hobby ceramic glazes	hobby ceramic glazes
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

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), Titanium Dioxide, Cobalt, Nickel, Chromium, Vanadium and Cadmium are listed on

the carcinogen list.

CANADA:

All ingredients are on DSL inventory.

WHMIS – Not controlled.



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EUROPE:

All ingredients are on EC inventory.

CHEMICAL SAFETY ASSESSMENT: EU:

Does not require a hazardous warning label according to the EU

guidelines/Dangerous Chemicals Ordinance.

16 - OTHER INFORMATION

ADDITIONAL INFORMATION:

PERSONAL PROTECTIVE EQUIPMENT GUIDLEINES:

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 Mumber

GHS Globally Harmonized System

IARC International Agency for Research on Cancer LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per cubic meter 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

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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.

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End of SDS

