

SAFETY DATA SHEET

PRODUCT NAME: FANTASY CRYSTALS

1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

SUPPLIER: _____

ADDRESS: _____

TELEPHONE: _____

FACSIMILIE: _____

EMERGENCY: _____

WEB SITE: _____

E-MAIL: _____

SYNONOMYS: CHRYSANTHOS FANTASY CRYSTALS

USES: CERAMIC GLAZE CRYSTALS

ISSUED DATE: Thursday, 3 May 2018

2 – HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

Each Fantasy Crystal is a high temperature fused mixture of ceramic material containing non-leaded frits, minerals and color pigments. Some pigments may contain small amounts of zirconium encapsulated cadmium and other metals. Contains potential carcinogens: Crystalline silica (quartz), as an inhalation hazard, may be present if unfired, dried crystals are excessively handled and allowed to create dust. Other ingredients present have no known acute toxicity.

Individual Fantasy Crystals in the range do not exceed the minimum concentration of hazardous chemicals identified.

GHS LABEL ELEMENTS:

HAZARD STATEMENTS: None allocated

PRECAUTIONARY STATEMENTS: None allocated

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	%
CADMIUM COMPOUNDS	N/A	Acute Tox. 4 H302 H312 H332, Aquatic Acute 1 H400 H410	0 – 10%

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CERAMIC PIGMENTS	N/A	N/A	0 – 10%
COBALT OXIDE	1307-96-6	Acute Tox. 4 H302, Skin Sens. 1 H317, Aquatic Acute 1 H400, Aquatic Chronic 1 H410	< 1.5%
COPPER OXIDE	1317-39-1	Acute Tox. 4 H302, Aquatic Acute 1 H400, Aquatic Chronic 1 H410	< 5%
FRITS, CHEMICALS	65997-18-4	N/A	< 90%
IRON OXIDE	1332-37-2	N/A	< 7%
STRONTIUM OXIDE	1633-05-2	Skin Corr. 1B H314, Aquatic Chronic 3 H412	< 3%
ZINC OXIDE	1314-13-2	Aquatic Acute 1 H400, Aquatic Chronic 1 H410	0 – 1.5%
SILICA	1408-60-7	N/A	< 15%

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:	Use personal protection equipment. Contain spillage. Uncontaminated material may be recovered and re-used. Contaminated material to be collected and placed in suitable containers for disposal.
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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.
HANDLING:	Before using carefully read the product label. Use of safe practices is recommended to avoid eye or skin contact and inhalation. Observe good

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personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS:

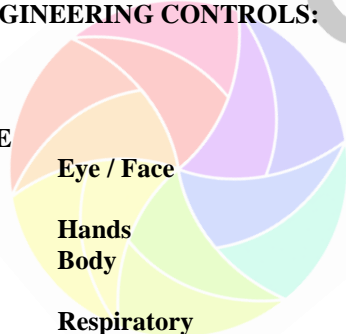
INGREDIENT	TWA		STEL		ACGIH TLV	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
CADMIUM COMPOUNDS (as Cd)	-	0.01	-	-	-	-
CALCIUM CARBONATE	-	10	-	-	-	-
COBALT OXIDE	-	0.05	-	-	-	-
COPPER OXIDE	-	1	-	-	-	-
IRON OXIDE	-	5	-	-	-	-
SILICA	-	0.1	-	-	-	0.1
STRONTIUM OXIDE	-	-	-	-	-	-
ZINC OXIDE	-	10	-	-	-	2

Remaining main crystal 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 crystals are non-hazardous fused mixtures of ceramic materials containing, non-leaded frits, minerals and color pigments. These crystals have no TWA or TLV.

BIOLOGICAL LIMITS: No biological limits allocated.

ENGINEERING CONTROLS: Avoid inhalation of any dust. Use in well ventilated area. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE



Wear appropriate eye protection / safety glasses to keep any dust out of eyes if present.

Not normally needed.

Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons.

Use a NIOSH approved respirator if dust present.

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colored crystals
ODOUR:	N/A
BOILING POINT:	N/A
MELTING POINT:	> 400°C
VAPOUR PRESSURE:	NOT AVAILABLE
SPECIFIC GRAVITY:	NOT RELEVANT
FLASH POINT:	NOT RELEVANT
FLAMMABILITY LIMITS:	NON FLAMMABLE
SOLUBILITY IN WATER:	Negligible
VISCOSITY:	No data
pH:	NOT RELEVANT
% VOLATILES	NEGLIGIBLE
EVAPORATION RATE	NOT RELEVANT
UPPER EXPLOSION LIMIT	NOT RELEVANT

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LOWER EXPLOSION LIMIT NOT RELEVANT

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 large crystal form of the products, an inhalation hazard is not anticipated unless products are crushed or heated.

These mixtures contain silica, a known carcinogen. Inhalation is the route of entry into the body that can lead to the development of Silicosis. The crystals should be non-toxic during recommended use. Some of the pigments may contain small amounts of various forms of metals (Mn, Ti, Zr, 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 µg/m ³ /10 years (human)
TCLo (inhalation)	16,000,000 particles/ft ³ /8 hrs/17.9 years (human fibrosis)

CADMIUM COMPOUNDS

LC50 (inhalation)	25 mg/m ³ /30M (rat)
LCLo (inhalation)	39 mg/m ³ /20M (human)
LD50 (ingestion)	890 mg/kg (mouse)

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LD50 (intraperitoneal)	5700 µg/kg (mouse)
LD50 (intravenous)	5 mg/kg (rabbit)
LDLo (ingestion)	70 mg/kg (rabbit)
LDLo (subcutaneous)	6 mg/kg (rabbit)
TCLo (inhalation)	88 µg/m ³ /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 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 (ADG)	SEA TRANSPORT (IMDG/IMO)	AIR TRANSPORT (IATA/ICAO)
UN NUMBER	None Allocated	None Allocated	None Allocated
PROPER SHIPPING NAME	Crystalline Artist and hobby ceramic materials	Crystalline Artist and hobby ceramic materials	Crystalline Artist and hobby ceramic materials
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, Cadmium are listed on the carcinogen list.

CANADA:
All ingredients are on DSL inventory.
WHMIS – Not controlled.

EUROPE:
All ingredients are on EC inventory.

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CHEMICAL SAFETY ASSESSMENT: USA:

No special warning is required under the provisions of 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:

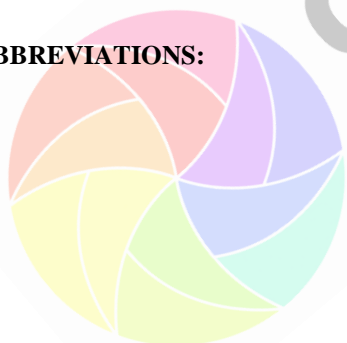
PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

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
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.

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

