



SAFETY DATA SHEET

FANTASY CRYSTALS – ENCAPSULATED CADMIUM CONTAINING GLAZE CRYSTALS

1. Product Information

Fantasy Crystals: FC010, FC013, FC015, FC021.

2. Hazardous Ingredients

Entity	%	CAS No.	ACGIH TLV	OSHA PEL
SiO ₂	30-50	14808-60-7	0.1mg/m ³	0.1mg/m ³
CdS	8-15	12656-57-4 & 58339-34-7	0.01 mg/m ³ (as Cd)	0.2mg/m ³ (as Cd)
Se	0-10	7782-49-2	0.01 mg/m ³	0.2mg/m ³

3. Physical and Chemical Properties

Appearance	Various coloured granules
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	No data
Solubility in Water	Negligible
Viscosity	No data
Ph	N/A
Volatile Organic Comp.	<1%

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
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	material is listed as a possible carcinogen.
Cadmium-sulpho-selenide/Cadmium:	<p>Product contains insoluble cadmium pigments.</p> <p>US OSHA has chosen to regulate occupational exposure to all cadmium compounds, including pigments, as a single category. The standard states that substances containing cadmium are a cancer hazard and can cause lung and kidney disease.</p> <p>Cadmium and cadmium compounds are listed in the Annual NTP Report as carcinogenic to animals, but with only limited evidence of carcinogenicity to humans. This information is based on test results for cadmium compounds other than pigment forms.</p> <p>Although certain cadmium compounds are known to cause kidney damage in humans and has been shown to cause lung cancer in laboratory animals, no chronic health effects have been shown to result from exposure to cadmium pigments. Cadmium pigments have been shown to be significantly less biologically available and less active than other cadmium compounds.</p>
Compound Analysis LD50/LC50:	<p>Cadmium Sulfide (12656-57-4 & 58339-34-7) Oral LD50 Rat: 7080 mg/kg Oral LD50 Mouse: 1166 mg/kg</p> <p>Selenium (7782-49-2) Oral LD50 Rat: 6700 mg/kg</p> <p>This product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.</p>
Carcinogenicity:	This product may be carcinogenic to humans.
Component Carcinogenicity:	<p>Cadmium Sulfide (12656-57-4 & 58339-34-7) German DFG – Category 2 (considered to be carcinogenic for man); (Listed under Cadmium and its compounds).</p> <p>Selenium (7782-49-2) IARC – Supplement 7, 1987; Monograph 9, 1975 (Group 3 {not classifiable}) German DFG – Category 3B (could be carcinogenic for man).</p>
Routes of entry	Ingestion. Absorption through skin negligible. (Chronic) inhalation of metal fumes during firing causing lung inflammation and damage to kidneys and nervous system.

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:	N/A
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.



11. Toxicological Information

Hazard to Humans:	None during normal use. Harmful if inhaled or swallowed.
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.
Primary routes of entry:	Inhalation of metal fumes during firing causing lung inflammation and damage to kidneys and nervous system. Ingestion may cause nausea. Eye contact is irritating and may cause conjunctivitis.

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:	For Cadmium Compounds Harmful (Xb)	
R Phrases	R20/22	Harmful by inhalation and if swallowed.
	R37/38	Irritating to respiratory system and skin.
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.
The following components have labelling requirements under Council Directive 67/548/EEC, Annex I.		
Cadmium Sulfide (1306-23-6)	Annex #: 048-010-00-4 EINECS #: 215-147-8	
Classification:	Toxic Carcinogen Category 3	
Label Information:		
R Phrases	R20/22	Harmful by inhalation and if swallowed.
	R33	Danger of cumulative effects.
	R53	May cause long-term adverse effects in the aquatic environment.
S Phrases	S1/2	Keep locked up and out of the reach of children.
	S20/21	When using do not eat, drink or smoke.
	S28	After contact with skin, wash immediately with plenty of...
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S61	Avoid release to the environment. Refer to



		special instructions/ Safety Data Sheets.
WHMIS Status	Not controlled.	

16. Other Information

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