

SAFETY DATA SHEET

PRODUCT NAME: CHOCOLATE STAIN

1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

SUPPLIER: _____

ADDRESS: _____

TELEPHONE: _____

FACSIMILIE: _____

EMERGENCY: _____

WEB SITE: _____

E-MAIL: _____

PRODUCT NAME: Zircon, cadmium yellow, cadmium red and Cobalt Chrome Iron
Nickel Black (Cd Se Zr Si- Co Cr Fe Ni).
Inorganic chemical materials smelted at high temperatures.

PRODUCT NUMBER: CHOCOLATE STAIN US106

CAS NO: -

USES: CERAMIC GLAZES

ISSUED DATE: Tuesday, 8 May 2018

2 – HAZARDS IDENTIFICATION

GHS LABEL ELEMENTS: 

HAZARD STATEMENTS: H303: May be harmful if swallowed.
H313: May be harmful in contact with skin.
H333: May be harmful if inhaled.

PRECAUTIONARY STATEMENTS: P261: Avoid breathing dust.
P262: Do not get in eyes, on skin.
P264: Wash hands thoroughly after handling.

SIGNAL WORD: WARNING



SAFETY DATA SHEET

PRODUCT NAME: CHOCOLATE STAIN

UN NUMBER: None allocated
PACKING GROUP: None allocated
HAZCHEM CODE: None allocated

DG CODE: None allocated
SUBSIDURARY RISK: None allocated

3 – COMPOSITION / INFORMATION ON INGREDIENTS

ENTITY	CAS NO	CLASSIFICATION	%
Zircon, cadmium yellow encapsulated	72828-62-7	N/A	< 10%
Zircon, cadmium sulphoselenide Red	72828-62-7	N/A	< 70%
Cobalt black 448	68186-97-0	N/A	< 20%

4 – FIRST AID MEASURES

EYE:	Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a doctor.
INHALED:	Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, contact a doctor.
SKIN:	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a doctor.
SWALLOWED:	Induce vomiting. Contact a doctor and present the safety-data sheet. A suspension of activated charcoal in water, or liquid paraffin may be administered.
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.
PROTECTIVE EQUIPMENT:	Use respiratory protection.
HAZCHEM CODE:	None allocated.

6 – ACCIDENTAL RELEASE MEASURES

SPILLAGE:	Use gloves and protective clothing. In the event of particulates aerosols use respiratory protection. Keep away from drains, surface- and ground-water and soil. Limit leakages with earth or sand. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or
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SAFETY DATA SHEET

PRODUCT NAME: CHOCOLATE STAIN

vegetation, notify the competent authorities. Remove the waste materials with a suitable device (for instance a suction pump) and dispose. After the product has been recovered, rinse the area and materials involved with water.

7 – STORAGE AND HANDLING

STORAGE: Keep containers tightly closed in a dry, cool and well-ventilated place

HANDLING: Avoid dust formation. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink, or smoke in areas of use or storage. Do not take internally. Wash thoroughly after handling.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS:

INGREDIENT	TWA		STEL		ACGIH TLV	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
ZIRCONIUM COMPOUNDS	-	-	-	-	-	10 tot
SILICA	-	0.1	-	-	-	5 resp
CADMIUM DUST (as Cd) ²	-	-	-	-	-	0.01
SELENIUM COMPOUND (as Se)	-	-	-	-	-	.2
COBALT OXIDE ¹	-	-	-	-	-	.02
CHROME OXIDE	-	-	-	-	-	0.5
IRON OXIDE	-	-	-	-	-	5
NICKEL OXIDE ³	-	-	-	-	-	0.2

ACGIH:

1. Animal carcinogen. Agent is carcinogenic in experimental animals at dose levels, by route of administration at site or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologist studies do not confirm an increased risk of cancer in humans except under common levels of exposure.
2. Consider various forms of cadmium are to be carcinogenic.
3. Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

BIOLOGICAL LIMITS:

No biological limits allocated.

SAFETY DATA SHEET

PRODUCT NAME: CHOCOLATE STAIN

ENGINEERING CONTROLS: 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 / Face Wear appropriate eye protection / safety glasses.
Hands Impervious gloves.
Body Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons.
Respiratory Use a NIOSH approved respirator in case of insufficient ventilation.

WORK/HYGENIC PRACTICES: When products are in use, do not eat, drink, or smoke. Wash hands immediately after use.

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Chocolate powder
ODOUR: None
BOILING POINT: N/A
MELTING POINT: >500°C
VAPOUR PRESSURE: NOT AVAILABLE
SPECIFIC GRAVITY: N/A
FLASH POINT: NOT RELEVANT
FLAMMABILITY LIMITS: NON FLAMMABLE
SOLUBILITY IN WATER: Insoluble
VISCOSITY: No data
pH: N/A
% VOLATILES N/A
EVAPORATION RATE NOT AVAILABLE
UPPER EXPLOSION LIMIT NOT RELEVANT
LOWER EXPLOSION LIMIT NOT 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: No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapors. Metal compounds.
HAZARDOUS REACTIONS: None known.

11 – TOXICOLOGICAL INFORMATION

HEALTH HAZARD SUMMARY: Prolonged contact with stain dust can be very irritating to the eyes
ACUTE & CHRONIC and/or skin. High dust levels can be irritating to the respiratory tract. Over exposure to dust may cause lung damage. With adequate ventilation, dust

SAFETY DATA SHEET

PRODUCT NAME: CHOCOLATE STAIN

control and good personal hygiene, symptoms of over exposure should not occur. Ingestion of large amounts of stain may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea. Advise regular medical monitoring of employees by a physician competent in industrial health.

EYE:

Cobalt, Cadmium, Iron, Nickel - Contact with eyes may cause irritation.
Silica, Zircon – May cause abrasion of the cornea.
Chrome - Mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.

INHALATION:

Cobalt - Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Cadmium - Overexposure to Cadmium can result in metallic taste in mouth, headache, short of breath, chest pains, weakness, leg pains and fluid in the lung. These symptoms may be delayed, sometimes occurring 4 – 8 hrs after exposure. Long term overexposure to cadmium fumes and dust have been associated with emphysema, bronchitis and kidney damage. Chronic overexposure to metal and cadmium compounds, such as cadmium oxide, cadmium sulphide, cadmium sulphate and cadmium chloride, may result in lung cancer, although a definite cause-effect relationship has not been fully established.

Silica - a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.

b) Inhaled from occupational sources is classified as carcinogenic to humans.

c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scleroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.

d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Zirconium - Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Chrome - Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Iron - Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Nickel - Evidence for the association of nickel compound exposures and cancer risk comes mainly from workers in now obsolete nickel refining operations. The studies of nickel workers suggest that respiratory cancer risks are primarily related to exposure to relatively insoluble forms of nickel notably sulphidic and oxidic nickel at concentrations greater than 10mg/m³. Toxic respiratory effects in animals may be caused by reduced particle clearance capacity. The International Agency for Research on Cancer (IARC) (ref. 4) in 1990 and the U.S. Tenth Report on Carcinogens (ref. 5) in 2002 concluded there was sufficient evidence that nickel compounds are carcinogenic to humans. The Report of the International Committee on Nickel Carcinogenesis in Man reported that workers who

SAFETY DATA SHEET

PRODUCT NAME: CHOCOLATE STAIN

have been primarily exposed to nickel oxide showed some evidence of increased lung cancer.

SKIN:

Cobalt, Cadmium - Prolonged skin contact may cause skin irritation.
Nickel - Nickel oxide has caused tumours at the site of injection in rodents. Prolonged and intimate skin contact can cause an allergic skin rash in previously sensitized individuals.

INGESTION:

Cobalt, Cadmium - Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhoea May irritate digestive tract.
Nickel - The U.S. National Institute for Occupational Safety and Health (NIOSH) concluded there is no evidence that nickel and its inorganic compounds are carcinogenic when ingested. The U.S. Food and Drug Administration has affirmed that nickel is generally recognized as safe (GRAS) as a direct human food ingredient

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:

No data.

13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Contain spillage and scoop or vacuum. Avoid making dust put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

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	Ceramic Stain	Ceramic Stain	Ceramic Stain
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.

SAFETY DATA SHEET

PRODUCT NAME: CHOCOLATE STAIN

USA:

***SARA 313

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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

All ingredients are on TSCA inventory.

California Proposition 65 - Proposition 65: Silica (Quartz) is listed on the carcinogen list.

CANADA:

All ingredients are on DSL inventory.

EUROPE:

All ingredients are on EC inventory or exempt.

CHEMICAL SAFETY ASSESSMENT:

EU:

Warning label required 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

SAFETY DATA SHEET

PRODUCT NAME: CHOCOLATE STAIN

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:

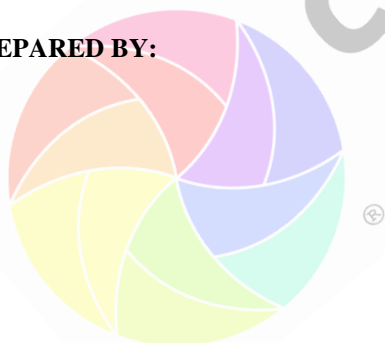
Revision	Description
1.0	Creation

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