



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

#### 1.0 Revision date

02/15/2011

#### 1.1 Identification of the substance

Product name: Green 6574

Chemical name: CAS name: Cadmium pigment as Inclusion Stain Cd (S,Se)

CAS number: 102184-95-2

#### 1.2 Use of the substance/

Colouration for ceramics.

#### 1.3 Company/undertaking identification and emergency telephone

Supplier: Hangzhou Synox Pigments Co., Ltd.

1304 TianHeng Building, 1509 Binsheng Road

Binjiang District, Hangzhou, Zhejiang, China

Tel: +86-571-87156383,

Fax: +86-571-87156373

#### 1.4 emergency telephone

Tel: +86-571-87156383

### 2. HAZARDS IDENTIFICATION

Ingestion: Not toxic for acute exposure to animals.

Chronic Effects/Carcinogenicity:

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.

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 pigmentary forms.

Although certain cadmium compounds are known to cause kidney damage in humans and have 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.



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### 2.1 Substance/Preparation Classification

This preparation is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this preparation requires a safety data sheet according to the 91/155/EC regulation and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: Xn

Phrases R: 48/20

### 2.2 Danger Identification

HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains:

### **Name Concentration C Classification**

QUARTZ (CRYSTALLINE SILICA) 1 <= C < 10 Xn R48/20

CAS No 14808-60-7

EC No 238-878-4



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### 4. FIRST AID MEASURES

**Ingestion:**

Seek medical assistance.

**Inhalation:**

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.

**Skin:**

Remove and isolate contaminated clothing and shoes. Immediately flush with running water for at least 20 minutes.

For minor skin contact, avoid spreading material on unaffected skin.

**Eyes:**

Immediately flush with running water for at least 20 minutes.

### CHRONIC HEALTH EFFECTS:

Cadmium and certain cadmium compounds are listed in IARC and the Annual NTP Report as carcinogenic, but with only limited evidence of carcinogenicity to humans. These listings are based on test results for cadmium compounds other than the pigmentary forms.

### 5. FIRE-FIGHTING MEASURES

Extinguish using agent most appropriate for surrounding fire.

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear, during a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes. Extinguishing media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.



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### 6. ACCIDENTAL RELEASE MEASURES

**Methods for Cleaning Up:**

Wear appropriate protective equipment. Take action to eliminate source of leak; prevent from entry into open streams or sewers; contain spill by diking; vacuum up liquid or use absorbent media; remove to storage for disposal and rinse residual stain with water.

### 7. HANDLING AND STORAGE

Keep in a dry location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage. All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

QUARTZ (CRYSTALLINE SILICA)		
- TLV TWA	0.05 mg/m <sup>3</sup>	ACGIH
Cadmium sulfoselenide red		
- TLV TWA	0.002 mg/m <sup>3</sup>	ACGIH
Cadmium pigment-encapsulated		
- TLV TWA	0.005 mg/m <sup>3</sup>	ACGIH
Zircon silicate		
- TLV TWA	5 mg/m <sup>3</sup>	ACGIH As Zr
Colour shine	green powder	
Odour	odourless	
Appearance	powder	
Solubility	insoluble in water	
Viscosity	N.A.	
Vapour density	N.A.	
Evaporation Rate	N.A.	
Reactive Properties	N.A.	
Melting Point	> 1000°C	
Partition coefficient: n-octanol/water	N.A.	
pH	7.00	
Boiling point	N.A.	
Flash point	N.A.	
Explosive properties	N.A.	
Vapour pressure	N.A.	
Specific gravity	4.00 ≤ C < 5.00 g/ml	

### 10. STABILITY AND REACTIVITY

Stable under normal temperatures and pressures.



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### 11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substance in the preparation.

The product does not contain toxicologically relevant substance.

### 12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

No specific data are available for this product. Handle it according to good working practices. Avoid litter.

Do not

contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or

sewers or contaminate soil or vegetation.

Please take all the proper measures to reduce harmful effects on aquifers.

### 13. DISPOSAL CONSIDERATIONS

Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

### 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations. This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.



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### 15. REGULATORY INFORMATION

Xn

HARMFUL

R48/20 HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.

S13 KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

S22 DO NOT BREATHE DUST.

Contains:

QUARTZ (CRYSTALLINE SILICA)

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/EC.

### 16. OTHER INFORMATION

Text of -R- phrases quoted in section 2 of the sheet.

R20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

R48/20 HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.

R50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

Text of -R- phrases quoted in section 2 of the sheet.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Directive 91/155/EEC and following amendments;

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