

**Material Safety Data Sheet (MSDS)**

---

**Cobalt Titanate Green Spinel**

**1. Supplier: HANGZHOU EPSILON CHEMICAL CO.,LTD.**

Phone nr: +86-571-82270817

Fax nr: +86-571-82660715

E-mail: pigments@epsilonpigments.com

In case of emergency: Phone nr: +86-571-82270817

**2. COMPOSITION AND INFORMATION ON THE INGREDIENTS:**

Chemical characterization:

Product name: Cobalt Titanate Green Spinel

CAS NO: 68186-85-6

**3. HAZARD IDENTIFICATION:**

Risk Symbol: Risk symbol not required

Risk phase: N. A.

Recommendations: no Hazardous component

**4. FIRST AID MEASURES:**

Contact with the skin: Flush skin with flowing water immediately

Contact with eyes: Immediately flush eyes with plenty of water at least 15 minutes

Ingestion: Immediately induce vomiting

Inhalation: Remove to fresh air-, if no breathing, give artificial respiration

**5. FIRE PRECAUTIONS:**

Appropriate extinguishers: Foam CO<sub>2</sub> dry powder

Prohibited means of extinguishing: water

Risks from products of combustion: N A

**6. MEASURES IN THE CASE OF ACCIDENTAL SPILLAGE:**

Individual precautions: far away from goods

Environmental precautions: clean environment with water

Methods of drainage: Remove water with container

**7. HANDLING AND STORAGE:**

Precautions in handling: keep container tightly closed

Storage conditions: keep tightly closed packing, store in cool place

Recommended of container: Normal container

**8. CONTROL OF INDIVIDUAL EXPOSURE AND PROTECTION:**

Precautionary measures:

Protection of the hands: Rubber gloves

Protection of the eyes: Protecting Glasses

Respiratory protection: approved respirator

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance at 20 °C: **Green POWDER**

Odor: Odorless

Flash point: N.A

Melting point: 1500 °C

Decomposition point or range: above 2000 °C

Solubility in water at 80 °C: Insoluble

**10. STABILITY AND REACTIVITY:**

Hangzhou Epsilon Chemical Co.,Ltd.

T.: +86-571-82270817

F.: +86-571-82660715

E: info@epsilonpigments.com

W: <http://www.epsilonpigments.com>

Conditions to be avoided: in wet places  
Incompatibility with: N.A.  
Dangerous products of decomposition: NO

**11. TOXICOLOGICAL INFORMATION:**

Acute oral toxicity: LD<sub>50</sub>(Rat): **8900mg/kg**  
Coetaneous irritation: N.A  
Ocular irritation: N.A

**12. ECOLOGICAL INFORMATION:**

Ichthyotoxicity LCO : N.A  
LC<sub>50</sub>(Fish): **1680 mg/L**

**13. DISPOSAL CONSIDERATIONS:**

Product: dispose in accordance with local and state laws  
Contaminated packaging: not permitted

**14. TRANSPORT INFORMATION:**

No special information for transport

**15. REGULATORY INFORMATION:**

88/379/ECC(Classification and labeling)  
Classification & labeling: none. The product doesn't need any label  
Symbols: none  
FDA Status: this product does not have FDA approval as a food additive  
USDA Status: this product does not been evaluated by USDA for use in packaging material in direct contact with meat or poultry food product prepared under federal inspection

**16. OTHER INFORMATION:**

Department issuing data specification sheet; Registration Department  
Contact: Registration Department  
Heavy metals: The possible content of soluble heavy metals are micro contaminants are typically below 25ppm for each of the following:  
Arsenic, Barium, Zinc, Lead, Cadmium, Chromium, Mercury, Nickel

Poly chlorinated biphenyls (PCB): From a theoretical assessment the product does not contains PCB

**Inventories:**

Australia: the components of the product are included in the AICS  
Canada: the components of the product are included in the DSL  
EU: the component of the products are included in the EINECS  
USA: the components of the product are included in the TSCA

FDA and BGVV Approvals for food packaging: Uncommon with most other pigment the product is not specially approved by FDA and BGVV, but to the best of our knowledge there is no reason for any hesitation as to use the product for food packaging if no migration or peeling.

Aromatic amines: the content is below 500ppm

CONEG: The heavy metal levels referred above for cadmium, lead, mercury and chromium are to be in full complied with the U.S.CONEG permitted maximum concentration of 100ppm in packaging materials.

Hangzhou Epsilon Chemical Co.,Ltd.  
T.: +86-571-82270817  
F.: +86-571-82660715  
E: [info@epsilonpigments.com](mailto:info@epsilonpigments.com)  
W: <http://www.epsilonpigments.com>

***MSDS according to the Regulation 1907/2006/EC***