

Product Number: 6320

Section 1: Manufacturer Identification

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Section 2: Identification of Product

Chemical Family: Inorganic  
Product Names: Delft Blue 6320  
Chemical Abstract Number (CAS): 68186-86-7,18282-10-5  
Chemical Name: Cobalt Alumina Blue - Spinel  
Chemical Formula:  $CoAl_2O_4 + Zn.SiO_2 SnO_2$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide ( $Al_2O_3$ ) Cas # 1344-28-1	10 mg/m <sup>3</sup> (total)	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

<b>Cobalt Oxide (<math>Co_3O_4</math>)</b> Cas # 1396-06-1	0.02 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

- Inhalation:** 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.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

<b>Silica, Crystalline (<math>SiO_2</math>)</b> Cas # 14808-60-7	0.1 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> <hr/> SiO <sub>2</sub> + 2	0.05 mg/m <sup>3</sup>
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**Silica, Crystalline cont'd**

Symptoms of overexposure:

**Inhalation:**

- 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. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scroderma, 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)

**Eye Contact:** May cause abrasions of the cornea.

**Skin Contact:** Not applicable.

**Ingestion:** Not applicable.

<b>Tin Oxide (SnO)</b>	2.0 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>
Cas # 21651-19-4			

Symptoms of overexposure:

**Inhalation:** No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

**Eye Contact:** Abrasive, mild irritant

**Skin Contact:** Possible irritant.

**Ingestion:** Considered non-toxic.

<b>Zinc Oxide (ZnO)</b>	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (Total)	5 mg/m <sup>3</sup>
Cas # 1314-13-2		5 mg/m <sup>3</sup> (Respirable)	

Symptoms of overexposure:

**Inhalation:** High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

**Eye Contact:** May cause irritation.

**Skin Contact:** May cause irritation.

**Ingestion:** May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

**Inhalation:** Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

**Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

**Skin & Eye:** Nuisance dust, prolonged or repeated may cause irritation.



**The information contained in this Material Safety Data Sheet must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material.**

**PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.**

***DISCLAIMER***

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