



## **MATERIAL SAFETY DATA SHEET**

### **ABILOX GREEN CHROMIUM/IRON OXIDE BASED PIGMENT POWDER**

#### **1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER**

**Products Included** : Everbright TP5608 Chromium Oxide Green; Granny Smith Oxide Green Earth; Green Slate; Gumleaf; Lichen; Olive Drab Base.  
**Recommended Use** : Mineral oxide dry colour pigments for concrete, coatings, etc.  
**Supplier** : Ability Building Chemicals Company  
**ACN** : 007 247 289  
**Address** : 133-135 Northern Rd, West Heidelberg, Victoria 3081.  
**Telephone** : 61 3 9457 6488  
**Facsimile** : 61 3 9458 4683  
**Emergency Contact** : 61 3 9457 6488

#### **2. HAZARDS IDENTIFICATION**

##### **HAZARDOUS SUBSTANCE; NON-DANGEROUS GOOD**

**Hazard Category** : Irritant  
**Risk Phrases** : R36/37/38  
**Safety Phrases** : S36  
**Class** : Not applicable  
**Subsidiary Risk** : Not applicable  
**Packing Group** : Not applicable  
**Poison Schedule** : Not scheduled

#### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b><u>Chemical Identity</u></b>	<b><u>CAS No</u></b>	<b><u>Proportion</u></b>	<b><u>Hazard</u></b>
Iron Oxide II	1317-61-9	0 - 40%	Xi
Iron Oxide III	1309-37-1	0 - 35%	Xi
Chromium (III) Oxide	1308-38-9	20 - 100%	Xi

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#### **4. FIRST AID**

- Ingestion** : If swallowed and patient is conscious, wash out mouth with water and induce vomiting immediately as directed by medical personnel.  
DO NOT give anything by mouth to unconscious patient.  
Seek immediate medical attention.
- Eye** : Immediately flush with fresh water for at least 15 minutes.  
Ensure adequate flushing by separating eyelids with fingers.  
Seek immediate medical attention.
- Skin** : Wash thoroughly with soapy water. Remove contaminated clothing and footwear and wash before reuse or storage.  
Seek medical attention if irritation or discomfort occurs.
- Inhalation** : Move immediately to fresh air and if necessary apply artificial respiration. If breathing difficulty give oxygen.  
Seek medical attention.
- First Aid Facilities** : Eyewash should be available in workplace.
- Advice to Doctor** : Treat symptomatically.

Poison Information centers in each State capital city can provide additional assistance for scheduled poisons. (Phone Australia 131 126)

#### **5. FIRE FIGHTING MEASURES**

- Fire/explosion hazard**: Product is not flammable.
- Fire Fighting advice** : Ensure use of SCBA units and full protective equipment to avoid contact with potential of metal fumes.
- Extinguishing Media**: Water spray, dry chemical, carbon dioxide or appropriate foam according to surrounding fire.
- Decomposition Products**: May include metal fumes in smoke, carbon monoxide and dioxide(from small component organic compounds).  
Small amount(<0.1% Cr) may revert to hexavalent chromium if product is exposed to high-elevated temperatures.

#### **6. ACCIDENTAL RELEASE MEASURES**

- Spills and disposal** : Ensure protective overalls, gloves and safety goggles are worn by cleanup personnel. Approved respirators/ dust masks should be worn.  
Remove unnecessary personnel from immediate area.  
Carefully sweep spillage together to allow collection.  
Avoid raising dust.  
Collect spillage into appropriately labeled containers for storage awaiting reuse or disposal via the local waste facility as per required legislation.  
Thoroughly wash the area with water to complete.

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#### **7. HANDLING AND TRANSPORT**

**Safe Handling Information** : Store product in a dry area and ensure all containers are sealed when not in use. Refer to product label.

**Precautions for Use** : Only to be used as per recommended use.

#### **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

##### **Exposure Standards :**

For Iron	TLV (ACGIH) = 5 mg/m <sup>3</sup>
For Chromium (III)	PEL (OSHA) = 0.5 mg/m <sup>3</sup> (TWA)
	TLV (ACGIH) = 0.5 mg/m <sup>3</sup> (TWA)

**Engineering Controls:** Ensure effective ventilation (exhaust and/or natural) at the workplace is adequate to avoid dust in the immediate vicinity.

**Personal Protection** : Wear full overalls, gloves and safety goggles when handling the product. Use particulate respirator (NIOSH type N95 or 100 filters).

Avoid skin and eye contact as well as inhalation.

Always wash hands before eating, drinking, smoking or using the toilet.

Wash any contaminated clothing or protective equipment before reuse or storage.

#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : Light to dark green coloured powder. No odour.

**Specific Gravity** : Approx. 5

**Bulk Density** : 800-1000 kg/m<sup>2</sup>

**Vapour Pressure** : Not applicable

**pH, @ 50 g/l** : 5.5 – 7.5

**Boiling Point** : Not applicable

**Melting Point** : > 1000°C (softening)

**Solubility** : Insoluble in water.

**Flash Point** : Not applicable

**Flammability Limits** : Not flammable

#### **10. STABILITY**

**Stability / Polymerisation:** Stable

##### **Incompatible materials**

**and conditions** : Avoid contact with strong acids and alkalis as well as lithium and glycerol.

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#### **11. Toxicological Information**

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms that may arise if the product is mishandled are –

##### **Acute Effects:**

**Ingestion** : May cause gastro-intestinal upset with nausea, vomiting and diarrhea.

**Eye** : May cause irritation to the cornea with resulting redness and pain to the eye. Physical damage may also occur due to particulate matter.

**Skin** : May cause mild irritation to the skin with prolonged contact.

**Inhalation** : If dust inhaled, may cause irritation to the throat and respiratory tract resulting in coughing and shortness of breath.

May also cause metal fume fever, which is characterised by flu-like symptoms with metallic taste, fever, chills, cough and chest pain.

**Chronic Effects:** Long term exposure to iron has resulted in mottling of the lungs – Siderosis. This is considered a benign pneumoconiosis and does not ordinarily cause significant physiological impairment.

Long-term eye exposures may stain the eyes and leave “rust rings”.

Prolonged or repeated skin contact may produce dermatitis.

##### **Toxicology:**

No data available.

No known carcinogenic, mutagenic or reproductive/developmental effects but it is considered that these materials have not been thoroughly investigated.

#### **12. ECOLOGICAL INFORMATION**

**Environmental Fate** : Avoid contaminating waterways.

Product not expected to biodegrade in soil nor to significantly bioaccumulate.

**Aquatic Toxicity** : No data available.

**Terrestrial Toxicity** : No data available.

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### **13. DISPOSAL CONSIDERATIONS**

Dispose of the product as per local regulations.  
Ensure containers are effectively cleared of product and disposed of according to local authority requirements.

### **14. TRANSPORT INFORMATION**

Is not classified as a Dangerous Good by the Criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

**UN Number** : Not applicable  
**Proper Shipping Name** : Not applicable  
**Class** : Not applicable  
**Subsidiary Risk** : Not applicable  
**Packing Group** : Not applicable  
**Hazchem Code** : Not applicable  
**Segregation Dangerous Goods**: Not applicable

### **15. REGULATORY INFORMATION**

**Poison Schedule** : Not scheduled.

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### **16. OTHER INFORMATION**

**Date of Preparation** : 27 August 2004  
**Date of Revision (No)** : 22 August 2005  
**Reason for Issue** : Product range review

This data sheet and health, safety and environmental information it contains has been prepared by Chemsultation Pty Ltd according to current regulatory requirements as at date of issue. The precautions and advice provided may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and comply with all applicable legislation. No statement made in this data sheet shall be construed as permission, a recommendation or authorisation given or implied to practice any patented invention without a valid licence. No company named in this document shall be responsible for any damage or injury resulting from abnormal use of the material from any failure to adhere to recommendations, or from hazards inherent in the nature of the material.

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**End of MSDS**