

Bomanite Coloration Concentrate: Greens



Material Safety Data Sheet

Bomanite Corporation
232 S. Schnoor Ave.
Madera, CA 93637

HMIS Ratings

Health: 0
Flammability: 0
Reactivity: 0
Personal Protection See VII
Equipment:

Emergency Telephone Number:
Chemtrec: (800) 424-9300

Notice: The following information is accurate to the best of our knowledge and is offered in good faith. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in specific context of the intended use and determine whether they are appropriate.

I. IDENTIFICATION

Product Name: Bomanite Coloration Concentrate: Greens
Synonymous: Synthetic iron oxide
Chemical Family: Inorganic oxide
Chemical Formula: Proprietary
D.O.T. Hazard Class: Mixture of Cr₂O₃, with CaCO₃.
Appearance & Odor: Green powder, no discernible odor.

II. COMPOSITION & EXPOSURE LIMITS

Component	Formula	CAS NO.	% by Weight
Limestone	CaCO ₃	1317-65-3	Proprietary
Chromium oxide green	Cr ₂ O ₃	1308-38-9	Proprietary
Silicon dioxide, crystalline	SiO ₂	14808-60-7	<1

Hazardous Components	OSHA PEL. Respirable Dust	ACGIH TLV Total Dust
Silicon dioxide, crystalline	0.1 mg/m ³	0.1 mg/m ³
Limestone	5 mg/m ³	10 mg/m ³
Chromium oxide green	0.5 mg/m ³ as Cr, 8 hrs. TWA	0.5 mg/m ³ as Cr, 8 hrs. TWA

III. TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1): 5.1
Boiling Point: N/A
Melting Point: 4415 °F (2435 °C)
Vapor Pressure: N/A
Vapor Density: N/A
Evaporation Rate: N/A
Solubility In Water: Insoluble
pH: 4.0 – 6.0

IV. FIRE EXPLOSION & REACTIVITY DATA

Flash Point: N/A
Flammable Limits: N/A
Firefighting Media: Dry chemical water spray, form CO₂
Special Firefighting Procedure: None
Unusual Fire Hazards: None
Reactivity: Stable
Incompatibilities: Avoid contact with strong oxidizing agents. Can react with molten alkali at high temperatures under oxidizing conditions.
Decomposition or Byproducts: A small amount (less than 0.1% as Cr) or reversion to hexavalent chromium may if this product is exposed to elevated temperatures.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: None

V. HEALTH HAZARD DATA

Routes of Entry: Inhalation: Yes
Skin Contact: No
Ingestion: Yes
Carcinogenicity: NTP? No IARC? No OSHA? No
Health Effect: TIV for nuisance particulate is 10 mg/m³ total dust, 5 mg/m³ respirable dust.
Skin Contact: No irritation at 500 mg/rabbit Id greater than 100 g/kg rat effects to eye no irritation at 50 mg/rabbit.
Aggravated Medical Conditions: Excessive exposure to airborne dust will result in effect similar to that of nuisance type dust that its particulate may reduce visibility and/or cause unpleasant deposits in the eyes, ears and nose. Injury to the skin or mucous membranes can occur by direct mechanical action or by rigorous skin cleaning.

Emergency and First Aid Procedures

Inhalation: Remove victim to fresh air.
Skin Contact: Wash with soap and water. Thoroughly clean contaminated clothing and shoes before reuse.
Eye Contact: Flush with large amount of water, consult an eye physician.
Ingestion: Seek immediate medical assistance.

VI. SPILL PROCEDURES & WASTE DISPOSAL

Spill: Carefully shovel up or sweep spilled material into a closed metal container for reclamation or disposal. All visible material must be removed.
Waste Disposal: Material can be buried in an approved landfill or handled as inert waste in accordance with Federal, State and Local environmental control regulations.

Precautions for
Safe Handling
And Storage: Material can be handled as a normal solid waste.

Other Precautions: N/A

VII. PROTECTIVE CONTROL MEASURES

Respirator: Dust mask should be worn. If exposure limits are exceeded, use a NIOSH approved filter type respirator.

Ventilation: Remove airborne dust.

Special: N/A

Protective Gloves: Rubber, cloth or plastic gloves.

Eye Protection: Safety glasses or goggles. Close-fitting goggles are preferred.

Other Protective
Clothing Required: N/A

Work/Hygiene Practices

Don't store near food or drink. Wash exposed skin for hygiene purposes.

VIII. SPECIAL PRECAUTIONS

Store dry at ambient temperature away from food and drink.

Iron oxide fumes: 10mg/m³

Respirable Dust: 5 mg/m³

IX. TECHNICAL DATA

Fe₂O₃: 88-90%

Oil Absorption: 32

Specific Gravity: 4.23

Water Soluble Salts: 0.5

Loss on Ignition: 5.0

SiO₂ + Al₂O₃: 5-7

pH: 4.0 - 6.0

Residue on 325 mesh

Screen: 0.05